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TABLE No. XXVIII.

Causes of Deaths of Mahomedans in the Town of Calcutta at different periods of life in the year 1882.

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TABLE No. XXIX.

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TABLE No. XXIX—continued.

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TABLE No. XXX.

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TABLE No. XXXI.

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ABLE No. XXXII.

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ABLE No. XXXIII.

Causes of Deaths of Hindus in the Town of Calcutta at different periods of life during the first quarter of 1883.

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Table No. XXXIII-continued.

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TABLE No. XXXIV.

Causes of Deaths of Mahomedans in the Toun of Calcutta at different periods of life during the first quarter of 1883.

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BLE XXXV.

Causes of Deaths of Other Classes in the Town of Calcutta at different periods of life during the first quarter of 1883.

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APPENDIX.

HEALTH OFFICER'S DEPARTMENT.

Report on the working of the Establishment for the quarter ending 31st March 1883.

The following cases were enquired into, the respective localities inspected by the officers of the department, reports furnished, and the cases finally disposed of :—

53 Complaints.

19 Registry certificates granted for dispensaries and drug shops.

7 Registry certificates granted for offensive and dangerous trades.

Confiscations consisted of the following:-

Tea ... 8,680 tb. Rice ... 2,291 mds. 17 Applications rejected for offensive and dangerous trades.

171 Applications attended to.

412 Applications for vaccination attended to.

163 Miscellaneous cases disposed of.

Dâl ... 60 mds. Vermicelli ... 700 fb.

TABLE No. XXXVI.

Comparative Statement of Cattle slaughtered at the Municipal Slaughter-houses at Tengra during the 1st quarter of 1882-83.

						188	32.		100	18	83.	1000
					Jan.	Feb.	Mar.	Total.	Jan.	Feb.	Mar.	Total
lst class bullocks 2nd ,, ,, Calves Sheep Goats Kids	***	 			1,637 5,767 1,427 5,369 3,375 1,797	1,264 5,358 1,298 4,875 2,667 1,625	1,115 5,958 1,288 5,317 2,779 1,-57	4,016 17,089 4,013 15,561 8,821 5,279	1,342 6,905 1,830 6,228 2,705 1,187	1,207 5,834 1,577 5,069 2,851 1,049	1,109 6,034 1,593 5,804 2,402 1,288	3,658 18,778 5,000 17,101 7,958 3,524
Action			Total	16	19,372	17,087	18,314	54,773	20,197	17,587	18,230	56,01

TABLE No. XXXVII.

Comparative Statement of Collections made during the 1st quarter of 1882-83.

						18	82.			*****					h			18	83.					7
	Ja	n.		Fe	b.		M	ar.		Tot	al.		Ja	n.		F	ob.		Mn	ır.		Tot	al.	183
	Řs.	Δ.	P.	Rs.	Α.	P.	Rs.	Δ.	P.	Rs.	۸,	P.	Rs.	Α.	P.	Rs.	Δ,	P.	Rs.	A.	P.	Rs.	A	P.
Slaughter-houses Fees for vaccination Miscellaneous Rent of public tatties License of ditto			0 0	7	6 8 0	600	- 2000	12 0 0	9 0	9,871 323 20		6 0 0	29 15 19	8 12 0 14	3 0 0 6	3,203 36 4 26 214	0 0 5	000	6.5	74004	60000	10,341 200 25 51 * 326	13 0 0 3 0	80000
Sale of standard plan for privies Refund of salaries	455					11)							27 20		6		0 13	9		8	0		8 11	-
	3,652	1	3	3,201	14	6	3,360	12	9	10,214	12	6	3,977	0	3	3,519	12	3	8,556	7	6	11,053	4	

TABLE No. XXXVIII.

Markets.—The prices of the principal articles of consumption have ranged as follows:-

Mutton in carcass, per lb.		Beef in carcass, per lb.		Rice, per seer.		Dâl, per seer.	Ghee, per seer.	Oil, per seer.	Fuel, per maund.	
First class.	Second class.	First class.	Second class.	Table.	Ballam.	Average six kinds.	Best.	Mustard.	Firewood.	Charcoal
5 armas.	2 annas 6 pie.	1 anna 9 pie to 2 nmas.	1 anna to 1 anna 3 pie.	I anna 6 pie to 2 annas 6 pie.	9 pie to I anna.	1 anna 6 pie.	12 annas to 15 annas.	5 annas to 5 annas 6 pie.	7 annas to 8 annas.	1 rupes 4 annas to 2 rupees 4 annas.

NUISANCE DEPARTMENT.

The following statement shews the number of privies attended to by the municipal

Number in list on 31st December 1882 Ditto undertaken during the quarter		38,227 322	38,549	
Less number in which services were discontinued			117	
Total number now served			38,432	T
Total for the corresponding quarter of 1882	***			38,16

Sanction was accorded for building 36 pucca privies in private dwelling houses and 758 privies in bustees. Every bustee privy was sanctioned on the standard plan, special care being taken to insure the provision of means of draining the privy and its surroundings. The connection of three privies with the sewers has been recommended, subject to the approval of the Engineer. Receptacles for washings allowed to 216 privies.

The following statement shews the notices that were issued under different sections of the action taken thereon.

the Act, and the action taken thereon:-

			NOTICES.	1111	-	hich	red	100	ling
	SUBSTANCE OF SECTION.	Number pending on the 31st December 1882.	Number issued during the quarter.	Total.	Number complied with.	Number of cases in which action was taken by the department.	Number of cases transferred to Engineer's Department for action.	Parties absconded.	Number of cases pending with the overseers.
2:8 240 245	For alteration of privies , cleaning filthy land private privies	419 1 9	1,109 1 7	1,528 2 16	191 1 8	810	37	1	489 1 8
	Total	429	1,117	1,546	200	810	37	1	498

The following statement shews the prosecutions instituted during the quarter:-

250	Budden of the second section of the section of	SUMMONS.		bus.	T. 1.	which	i de la lina	No.	
	SUBSTANCE OF SECTION.	Number of cases pending on the 31st December 1882.	Number issued during the quarter.	Total.	Number of cases warned discharged.	Parties absconded.	Number of cases in within the were imposed.	Amount of fines.	Number of cases pending
238 230 197 232	For keeping filthy land constructing privies without sanction flowing sawage throwing or permitting to be thrown night-soil into filled up drain	5 6 	347 15 2 2	352 21 2	66 15 1	44 2 	207 3 1	Rs. A. P. 202 8 0 11 0 0 2 0 0 1 0 0	35
	Total	11	366	877	82	47	212	216 8 0	36

Two thousand six-hundred and forty-eight applications of various kinds were received and attended to; 942 letters written to.

Statement shewing the number of prosecutions under Section 26 of Act V (B.C.) of 1880.

	PROSECUTION.									RESULT.	
							January.	Febru- ary.	March.	Total.	Number of cases vaccin ated.
							0				123
DEDOOM	CARLON CONTRACTOR OF STREET OF			1988	***			*** · · · · · · · · · · · · · · · · · ·			
	Sukea's Street		TANKS, STORES			***	2		10.00	0	2
D. G.	Burrabazar					-	2 9 1			2 2	2
H.			**	***	(1 3			1 3	2 2 1 3

RESOLUTION ON THE REPORT OF THE SUPERINTENDENT OF EMI-GRATION ON INLAND EMIGRATION FOR THE YEAR 1882.

GENERAL DEPARTMENT-INLAND EMIGRATION.

Calcutta, the 3rd July 1883.

RESOLUTION.

READ-

The Report on Inland Emigration for the year 1882.

The report has reached the Government punctually on the date fixed for its submission, and in this respect contrasts very favourably with its recent predecessors. It is the first prepared for the calendar year, that period having been substituted for the official year for the sake of uniformity with the Assam Report, and is submitted by Dr. Grant, who was in charge for nine months of the year. Dr. Richards officiated as Superintendent during the remaining three months.

2. The new Inland Emigration Act I of 1882, which came into force in January 1882, and was thus in operation during very nearly the entire period under report, has effected some important changes in the law. While retaining safeguards against irregular recruitment, and the improper treatment of emigrants on their journey to the employer's estate and during the term of their engagement, it seeks to facilitate emigration to the tea districts by providing for an increase in the number of registering officers in the recruiting districts; by permitting garden-sirdars to recruit any number of persons, whereas they were formerly restricted to 20; by severing all connection between them and contractors; and by authorizing the employment of local agents to supervise the operations of garden-sirdars, or, under special license, to recruit emigrants themselves and despatch them to the labour districts without the assistance of sirdars. The term for which contracts may be made has also been extended from three to five years, and no restriction whatever is imposed on free emigration. The labourer may now proceed to the tea districts either as a free emigrant, taking work on an ordinary contract, or entering into a contract under the Act after his arrival, or as an emigrant recruited and registered under the Act. In the first case he is in no way subject to the Act; in the second he is subject only to such of its provisions as refer to the carrying out of the labour contract; and in the third he is completely under the Act from the date of his recruitment until the expiration of his engagement. The extension of the railway system, which has taken place in recent years, has much diminished the need for a stringent emigration law in the present day, and with further improvement in the means of communication, and the consequent shortening of the journey between Assam and the districts from which the emigrants are drawn, the continuance of any special law at all will probably be found unnecessary after the lapse of a few years. An important step in the promotion of rapid communication with the Assam Valley will shortly be taken by the establishment of a daily steam service between Dhubri and Dibrugarh, Messrs. Macneill and Company, who have taken the contract on a subsidy, have engaged to accomplish the voyage between these places regularly in four days.

3. The following tabular statement gives the total number of emigrants and their dependents who were registered and forwarded through Calcutta

and Goalundo during the last two years :-

		lies recruited ton behalf of co		Class B coolie garden-sirda more than through con		ifted by sirdars proceed to the Assum, Cachar, mdently of the	į	
YEARS,	Vid Calcutta for Assam, Cachar, Sylher, and Chirtagoug.	Fig. Goalundo for Cachar Sylhet,	Total.	Fig Calcutta for Assum, Cachar, Sylbet, and Chit- tagong.	Vid Goalundo for Cachar and Sylhet.	Total.	Class C coolies recri and registered to labour districts of and Sylhet, indep- contractors' depots.	Total number registe
1881	5,533 -5,966	882 2,029	6,415 7,995	1,048 443	274 1,007	1,322 1,450	1,057 1,457	8,794 10,902

It has for some years past been considered desirable to discourage, as far as possible, recruitment through the agency of contractors, and promote in its place the general employment of garden-sirdars; and the provisions of the new law, permitting the appointment of local agents, were introduced especially to further this object. From the preceding statistics, however, it appears that the recruitment of coolies through contractors has not diminished during the past year. There has indeed been a decrease in the number of contractors, eight only having held licenses at the close of the year against 10 at the commencement and there was also a decrease of 15 in the number of their recruiters; but the actual number of emigrants recruited by them was larger than in the previous year. It is true that there has been an increase of over 600 in the number of certificated garden-sirdars, but they recruited a far smaller number of labourers than might have been expected. It is not to be supposed that these sirdars were mostly idle, and there is therefore ground for thinking that the system of voluntary aided emigration, which was brought to notice by the Commissioner of Chota Nagpore last year, may have received a stimulus from the exertions of these newly licensed garden-sirdars. Until, however, the Lieutenant-Governor has before him the statistics of registration in Assam of free emigrants under sections 111 and 112 of the Act, it is impossible to verify this surmise, and the Superintendent of Emigration will therefore be instructed to place himself in communication with the Assam authorities with a view to ascertaining the extent to which this sort of emigration has

Dr. Grant brings the fact to notice that the percentage of licenses cancelled for misconduct rose from '90 in 1881 to 2.61, a result which he attributes to increased competition among recruiters, arising from continued difficulty in obtaining the number of labourers required, and consequent temptation to resort to irregularities. The malpractices, however, cited in the report, while they fully shew the necessity of still maintaining an official check over the proceedings of these recruiters, do not support Dr. Grant's views regarding the growing scarcity of emigrants. Misbehaviour on the part of recruiters will probably be removed by continued attention to employing men of good character, and visiting breaches of the law with adequate punishment. The number of licenses granted to local agents by the end of the year was 48; but as the first license was not taken until August, no opinion can as yet be formed of the working of this system. Out of a total of 2,329 garden-sirdars who received certificates during the year, 1,074 were placed under the control of local agents. An increase of 608 took place in the number of these recruiters, but one certificate only was cancelled against three in the previous year.

4. The returns summarised in the preceding paragraph shew an increase of activity in recruiting operations during the year, the total number of emigrants and their dependents registered being 10,902 against 8,794 in 1881. Of these, 6,409 were registered for transmission through the Calcutta depôts, 3,036 for transmission through the Goalundo depôts, and 1,457 to proceed in charge of garden sirdars independently of the depôts. The chief centres of registration were—Burdwan (1,803), the 24-Pergunnahs (1,584), Furreedpore (656), Bankoora (299, Midnapore (255), and Beerbhoom (254), in Bengal; Shahabad (1,288), Monghyr (878), the Sonthal Pergunnahs (775), Gya (339), and Bhagulpore (210), in Behar; and Hazaribagh (752), Manbhoom (616), Lohardugga (534), and Singbhoom (218), in Chota Nagpore. Of the remaining 441 emigrants, 190 were registered in the North-Western Provinces, and the rest in Rajshahye, Nuddea, Patna, Durbhunga, and Cuttack. The places of registration afford, however, no criterion of the locality to which the emigrants belong, registration being in a vast number of cases effected in a different district from that in which the emigrant has his home. This is particularly the case with regard to the registrations in the 24-Pergunnahs, Burdwan, and Furreedpore, as shewn in Statement VIII appended to the report. Of 1,519 persons registered in the first district for transmission through contractors' depôts, only 14 belonged to the district, the rest having come from all parts of Bengal and Behar, from various districts of the North-Western Provinces and Oudh, and from Madras. Labourers gravitate towards Calcutta in search of work, and before they reach the capital, or while there, are induced to emigrate. In Burdwan only 173 persons were contributed by the district itself, out of 1,346 registered; and in Furreedpore not one of the 656 persons registered was a resident of the district. The whole of the latter evidently consisted of emigrants who came, or were brought, to Goalundo for registration. The Lieutenant-Governor will be glad to have in the body of the report in future full details of the localities which supply the emigrants of the year. Information on this point is furnished in Statement VIII of the present report, but not in a complete form.

- 5. The 6,409 emigrants registered for transmission through the Calcutta depôts were reduced by 150, or 2.34 per cent, before their arrival at the depôts, the loss being due to the detention of 27 persons, the discharge of 8, and the desertion of 57 at the mofussil depôts, and the death of 1 and the desertion of 52 persons on the journey. These figures compare favourably with those of the preceding year, when 292, or 4.43 per cent, of the registered emigrants did not reach the depôts. The total number of emigrants accommodated at the depôts during the year, inclusive of 146 remaining from 1881, and 2 infants born in depôt, was 6,407. Of these, 102 were rejected, 389 were discharged, 492 deserted, and 4 died of cholera and 8 from other causes, making a total of 995 casualties; and of the remainder, numbering 5,412, 5,141 were despatched to Goalundo, and 20 to Chittagong, leaving 251 in depôt at the close of the year. The sanitary arrangements of the depôts are reported to have been satisfactory, and the Medical Inspector remarks that, though the actual number of deaths, altogether 8, was somewhat higher, the actual number of sick was lower than in the preceding year. Of the 8 deaths, 4 resulted from cholera. The rejections of emigrants were far fewer than in 1881, and this is no doubt correctly attributed to the fact that the Medical Inspector is no longer required to ascertain the labourer's physical fitness for work. The desertions and discharges, however, shew a very large increase, which is not fully accounted for by the explanation that in some cases coolies, especially old returned emigrants from the colonies, offer themselves for registration with the intention of merely securing a free passage to Calcutta. The Lieutenant-Governor desires that this subject may be more fully investigated by the Superintendent, and noticed at greater length in the next report.
- 6. Of the 3,036 emigrants registered for transmission through the depôts at Goalundo, 36 were detained at the mofussil depôts, 72 deserted, 13 died, and 164 did not arrive, the number actually received being thus reduced to 2,751. Similarly, the number despatched from the Calcutta depôts was reduced to 5,139 by one death and one desertion on the journey. The total arrivals at Goalundo during the year were therefore 7,890, and the addition to this of 52 remaining from the previous year, and 1 infant born in depôt, raised the total number accommodated in the depôts to 7,943. Out of these, 84 deserted, 23 died, 13 were released from their engagements, and 15 were rejected, leaving 7,808 available for despatch to the labour districts. The number actually embarked was 7,789, and 19 remained in depot at the close of the year. The percentage of deaths, desertions, and detentions among the emigrants registered for despatch direct to Goalundo was smaller than in the previous year, but enquiry is necessary regarding the 161 emigrants who failed to reach Goalundo. The Superintendent should ascertain and report whether, as suggested by Dr. Richards, they proceeded direct to Dhubri, or, if not, what became of them. The instances of gross neglect of emigrants on the journey to Goalundo and Dhubri, which have lately been brought to the Lieutenant-Governor's notice, render it essential that an explanation should be obtained of every case in which an emigrant disappears on the way from the recruiting to the labour district. As regards the casualties at Goalundo itself, there was an increase in the percentage under all heads except rejections. The increase was specially marked in desertions.
- 7. In addition to the 7,789 contractors' coolies 30 coolies, collected by garden-sirdars also embarked at Goalundo. Of the total number (7,819), 3,689 proceeded to Assam, and 4,130 to Sylhet and Cachar. The Assam emigrants travelled by licensed steamers, which made 66 trips, carried an average of 56 persons on each occasion, and made passages averaging 16 days. The

greater prevalence of cholera during the year unfortunately caused a higher rate of mortality on these voyages than in the preceding two years, but this result seems to have been in no way attributable to any defects in the general arrangements of the steamers. The total mortality was 27, consisting of 21 cases of cholera and 6 deaths from other causes; but of the cholera cases no less than 19 occurred in a single trip, when the disease was very prevalent in the districts through which the vessel passed.

8. The Sylhet and Cachar emigrants travelled by country boats, the number for the former district being 1,228 and for the latter 2,902. The desertions and deaths on the way amounted to 137, or 3.31 per cent., against 78, or 2.63 per cent. in 1881, the difference between the two years lying almost entirely in the number of deaths from cholera. There were 101 such deaths in the past year, as compared with 51 only in 1881. The disease is said by Dr. Richards to have been principally contracted in the narrow rivers of

9. Of the 1,457 coolies registered to proceed to the labour districts in charge of garden-sirdars, 30 were conveyed to Assam by steamers from Goalundo, while 817 started from Kooshtea and other places for Sylhet, and 610 for Cachar. The casualties among the Sylhet batches were 5, and among the Cachar batches 21.

10. The operations of the year may, in conclusion, be thus summarised. The total number of emigrants and their dependents originally registered was 10,902, and this number was raised to 11,103 by the addition of 198 persons remaining from the previous year, and three infants born in depôt during the year. After allowance, however, for casualties of all kinds, amounting to 1,749, or 15.75 per cent., 9,354 were actually available for the labour districts, of whom 9,084 were landed there, the rest remaining in depôt at the close of the year. Of the 9,084 who reached the labour districts, Assam received 3,658, Cachar 3,398, Sylhet 2,008, and Chittagong 20. In 1881, the registrations were 8,794 in number, and there was a balance of 254 emigrants from the previous year, making a total of 9,048. From this number 1,156, or 17:19 per cent, were lost through casualties, and only 7,296 reached the labour districts, the rest remaining in depôt at the end of the year. Both the original registrafions and the number of coolies landed in the labour districts were thus larger in the past year, and if it be considered that many emigrants proceeded to the labour districts without being registed under the Act, it will appear that emigration from these provinces to Assam is growing in magnitude.

11. The thanks of the Lieutenant-Governor are due to both Dr. Grant

and Dr. Richards for their efficient work during the year.

CENTER DESCRIPTION

By order of the Lieutenant-Governor of Bengal,

A. P. MACDONNELL,

Officiating Secretary to the Govt. of Bengal.

ADMISSION OF FEMALES TO THE CALCUTTA MEDICAL COLLEGE.

No. 418T.-G, dated Darjeeling, the 29th June 1883.

From-A. P. MacDonnell, Esq, Offg. Secy. to the Govt. of Bengal, General Dept.,
To-The Director of Public Instruction.

I AM desired by the Lieutenant-Governor to acknowledge the receipt of your letter of the 4th instant, on the subject of admitting females to the classes of the Calcutta Medical College, and in reply to communicate to you the following instructions and remarks.

- 2. The question of the admission of females to the Medical College classes was first raised in 1876, and it then met with a favourable reception from Sir Richard Temple, who was Lieutenant-Governor. Subsequently, in 1879, the matter was again discussed; but on neither occasion had the discussion any practical results. Last year the Director of Public Instruction brought the question before the Council of the Medical College in connection with a wish which had been expressed to him by the parents of some young ladies that their daughters might be permitted to attend the medical classes. Mr. Croft advocated the admission of female students to the College classes; and, influenced by the advantages which, in his opinion, a body of qualified female doctors would confer on the community, even urged on the Council the propriety of admitting them on a reduced educational standard. Under the rules framed by the Senate of the Calcutta University, which are now in force, to qualify for admission to the Medical College, young men must pass the First Arts Examination Mr. Croft recommended the admission of female students to the same privilege on their passing the Entrance Examination. The College Council, however, refused sanction to the admission of females on those terms; and when it was afterwards proposed to waive any exceptional favour to lady competitors in the way of preliminary examination, and to admit them on the same terms as males, the Council affirmed its previous decision, and resolved not to admit females on any terms to the classes of the Medical College. This resolution of the Council you now report for the orders of Government.
- 3. The Lieutenant-Governor has considered the important question thus submitted to him, and has examined the opinions recorded upon it by the members of the Medical College Council. He regrets to say that in none of the opinions, except those recorded by Drs. Coates, Harvey, and Anderson, can he find any facts which bear examination, or any reasoning which stands the test of criticism. All the force of facts and argument lies on the side of those gentlemen who favour the admission of females to the Medical College classes; and therefore, even had Mr. Rivers Thompson not formed, independently of this reference, a strong opinion on this subject, he would be bound to approve of that course which, on the papers before him, is recommended by an overwhelming weight of argument. But the admission of females to medical education is a matter on which the Lieutenant-Governor had already formed a clearly affirmative judgment, and he has therefore had less hesitation in overruling the decision of the Council of the Medical College than, looking to the weight which must ordinarily attach to the decision of such a body, he otherwise might have had.
- 4. On this question, looked at from the standpoint of general policy, as well as of individual freedom, there is not, in Mr. Rivers Thompson's opinion, any room for doubt as to the action which Government should take. It is indeed, in the Lieutenant-Governor's judgment, a subject of great reproach to the Bengal Presidency, in which education has made such wide progress, that it should be so far behind other provinces in matters regarding the medical education of native ladies; and this reproach is the more appreciable in that the backwardness of Bengal in this respect would seem to be due, not so much to the prejudice of native parents and guardians (which might in the present circumstances of India be only natural) as to the attitude which the Medical College Council have thought fit to assume. Already these provinces have suffered from the Council's failure to take a broad and unprejudiced view on this question; for the Lieutenant-Governor

learns to his regret that some Bengali ladies, fully qualified by educational attainments for admission to the College, have had to betake themselves to the more liberal Presidency of Madras, there to prosecute those medical studies from which the Council of the Calcutta Medical College had excluded them. It is, in Mr. Rivers Thompson's opinion, clearly opposed to the public good, as well as to legitimate private interests, that such a state of things should continue, and that the educational system of Bengal, progressive in other respects, should be illiberal and retrograde in this. Illiberality here has great and numerous evil consequences. It encourages zenana prejudices; it strengthens the barriers of caste; and it suppresses the natural and reasonable aspirations of Indian ladies to enter a profession which would find, in India of all countries in the world, a wide sphere of action and of beneficient service. Every day that passes widens our knowledge of the fact that among the native community there are women in every position of life who would prefer death to treatment by a male physician, and the misery caused by neglected, and unskillfully treated illness must be widespread and most lamentable. There is but one way by which this suffering can be relieved, and that is by the medical education of females; for in the present conditions of Indian life it would be useless to wait till opposition, based upon prejudices (if such they can be called), is removed. The Lieutenant-Governor therefore considers it his duty to support this movement; and he looks on the objections which have been made to it, on the ground of the difficulty of teaching mixed classes, or the alleged inaptitude of females for the profession of medicine, as unsubstantial and obsolete. Experience gained in Europe, in America, and in Madras, has shewn that mixed classes can be taught without any bad results; while the aptitude of women for the study and profession of medicine is, in the Lieutenant-Governor's opinion, no longer open to discussion or doubt. Even if the aptitude of women for the profession of medicine were still an open question, it would be an inadequate objection here, for the fitness or unfitness of women to practice medicine can only be proved by experience. The issue-therefore is, shall it be put to that proof in Bengal? The ladies who apply for admission to the College will be the only losers if they fail in the trial: the community will be the great gainers if they succeed. For his own part the Lieutenant-Governor has no doubt they will succeed far beyond the expectations of their most sanguine supporters, and he looks forward to a not distant time when Calcutta hospitals shall be partly officered by lady doctors. And if the success of the principle be established in the capital, there is no reason why our medical schools in the provinces should not afford opportunities for a more general extension of the policy, with incalculable advantage to the country.

- 5. As regards the proposal to lower, in favour of females, the educational standard of admission to the Medical College, the Lieutenant-Governor is entirely of your opinion that it should be negatived. Mr. Rivers Thompson would open the College doors wide to students of both sexes; but he would not specially favour either sex. Did the power of reducing the educational standard which qualifies for admission to the College rest with him, and not, as it does, with the Senate of the University, the Lieutenant-Governor would certainly abstain from exercising it, for he knows of no profession in which a liberal preliminary education, training the faculties of observation and thought, is more needed than in the profession of medicine. Mr. Rivers Thompson therefore thinks it would be conferring a fatal gift on the cause of female medical education to expose it to the risk of practical failure by withdrawing the necessity for that solid foundation of general knowledge on which the superstructure of technical information can alone be safely built. In conclusion, I am to say that, in now declaring females fully admissible to the classes of the Calcutta Medical College, the Lieutenant-Governor is confident that he can count on the loyalty and zeal of the Professors to bring his policy on this question to a successful issue.
- 6. All arrangements, in regard to separate seats, screens, and waiting-rooms for females, which it has been suggested may be necessary in order to give effect to these orders, can be safely entrusted to the discretion of the Principal, Dr. Coates.

Dated Calcutta, the 4th June 1843.

From-G. Bellett, Esq., Offg. Director of Public Instruction, To-The Secretary to the Government of Bengal, General Department.

I HAVE the honour to forward copies of the letters and documents named in

This office No. 2823, dated 5th May 1882, to the Principal, Medical College.
Letter No. 204, dated 10th June
1882, from the Principal, Medical
College.
Letter No. 478, d. d. C. J. C. J.

Letter No. 472, dated 31st October 1882, from the Principal, Medical

Letter No. 108, dated 12th May 1883, from the Principal, Medical College, in original. Letter No. 125, dated 18th May 1883, from the Principal, Medical College.

the margin, and to solicit the orders of Government on the subject of the admission of females to the classes of the Medical College.

2. In doing so, I beg to append a short account of what has taken place with regard to the question.

3. A little more than a year ago, on the 5th May 1882, Mr. Croft addressed to the Principal of the Medical College a letter, No. 2823. this letter he asked for the opinion of the Principal

and Council of the College as to the admission of females to the Medical College classes, and urged that they should be admitted on the ground of the great alleviation of suffering which would probably result if there were a body of qualified practitioners to whose admission to zenanas there would be no objection, as well as on the ground that if the Medical College classes were thrown open to females, a career of usefulness would be provided for those ladies, native and others, who are now passing the University examinations. Mr. Croft proposed to recommend to the University the admission of female candidates to the examination for L.M.S., if they have passed the Entrance examination.

4. Mr. Croft's suggestion was laid before the Council of the Medical College, and at a meeting of the Council, at which five members only were present, resolutions were passed by a majority of four adverse to the proposition, and recommending that, if medical education for women was found to be necessary, a separate college for women be established, while expressing the opinion that such education was not extensively demanded, and that an extension of the existing training in midwifery would be sufficient to meet the requirements of the case.

5. In communicating these resolutions to this office, the Officiating Principal of the Medical College appended the opinions of individual members of the Council, and from these it appears that on one point, viz. that of lowering the qualification for entrance to the college, the whole Council was

unanimously adverse.

- 6. Some members of the Council objected to medical instruction to women altogether; others to instruction given to mixed classes. The need for lady doctors was denied by some, while others asserted the general unfitness of the sex for the practice of this profession. The single supporter of Mr. Croft's suggestion was the Officiating Principal, Dr. Harvey (Dr. Coates, the Principal, who is a strong supporter of the scheme, being on leave), and I beg to refer you to Dr. Harvey's note, which winds up the collection of opinions for what seems to me to be a very satisfactory answer to all the arguments adverse to the scheme.
- On the 12th September, after Dr. Coate's return from leave, Mr. Croft forwarded the resolutions and opinion of the Council to the Principal for his opinion. Dr. Coates, in his answer, relied to a certain extent on the regulations of the University, which, under a misapprehension, he deemed to be of such force as to compel him as Principal to admit lady students. But he passes on to state the unanimous opinion of those connected with medical schools in Switzerland whom he had consulted, which were to the effect that "the presence of ladies in class-rooms had a refining effect on all present." And after stating his willingness to give a separate waiting-room and dissecting-rooms for the use of lady students, and his opinion that it did not rest with the Council to decide whether or no there is the demand for lady doctors, which is asserted to exist, he concludes by calling attention to a letter from the Principal of the Madras Medical College, which he encloses.
- In this letter the Principal states that the Professors find no difficulty in lecturing to mixed classes, and that no signs of demoralization in consequence · of the mixed classes had been observed.

9. When Miss Bose applied for admission to the Medical College, there was no bar in the form of want of qualification, she having taken her B.A. degree; and on her applying to me for permission to admit her, and on his stating that he believed the strong feeling of the Council to be against the lowering of the qualification, I suggested that the Principal should lay Miss Bose's case specially before the Council.

10. The result was, as you will perceive, only a reiteration of their unwillingness to admit female students on the part of the majority of the

Council.

11. The question, then, on which I solicit the orders of Government is whether the opinion of the majority of the Council of the Medical College is to carry sufficient weight to exclude those ladies who are otherwise qualified from entering the Medical College. It seems to me that the arguments which the opponents of the admission of females have advanced have been disposed of by the statements of Dr. Coates and Dr. Harvey, the evidence of the Professor in the Swiss medical schools, and the letter of the Principal of the Madras Medical College.

12. The necessity for trained medical women is, I cannot doubt, completely established; and if there be this necessity, a path of honourable and profit-

able employment is open to such a class, if called into existence.

13. With regard to the lowering of the qualification, Mr. Croft was of opinion, as shown in his letter No. 2823, that for females it would be sufficient qualification if it were required that they should have passed the Entrance examination. It is with considerable reluctance that I state my dissent from Mr. Croft's opinion, but I think that in this matter the unanimous opinion of the Council is entitled to great weight. According to the rules now in force no student is permitted to enter the college unless he has passed the F.A. examination. The object of insisting on this is to ensure that the student's knowledge of English and general intelligence should be such as to ensure his being able to follow with understanding the lectures delivered.

. 14. I am inclined to think that the passing of the Entrance Examination does not sufficiently ensure this knowledge and intelligence, and I am doubtful whether it would be for the advantage of the female pupils themselves that they should start with a lower qualification than their male fellow-

students.

15. This, however, is a matter of opinion, and, as I have already said, I

unwillingly differ from Mr. Croft on the matter.

16. I may add that I feel some doubt as to whether the governing body of the University would agree to the change, which would, in consequence, have to be made in the University Regulations.

17. In conclusion, I beg to solicit that early orders may be passed on the subject, as the session of the Medical College begins on the 15th of this

month.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 30th June 1883.

No.	District, and date return.	of	Rainfall at Sudde Station in inches,	Character of the weather, state and prospects of the crops, and
			mettes,	
Philip.			7. 0	
ENGA	Western Districts		freeze	
/ 1	Burdwan, June 30		3:37	Weather-rainy, with high wind. Ploughing and transplanting going
1	Culna	10.0	0.67	throughout the district. Public health fair, except in the town of Burdwan.
12:3	Cutwa *	***	0.61	
2	Raneegunge Bankoora, ,, 30		1:02	Weather-cloudy and rainy with storms. Prospects of crops favourable
1 -	Bisheupore ,, 30		0.81	Aus paddy being transplanted in some places. Indian-corn being sow
1	Maliara		4.23	Public health good.
	Khatra		3.12	
(3	Beerbhoom 30 Rampore Haut		1.64 2.54	Weather—cool and showery. High wind in latter part of week. Ploughing as sowing of rice crop in progress. Til being cut. Prices slightly highe
1	Kampore Hade		203	General health satisfactory.
1 4	Midnapore. " 30		2 79	Weather-cloudy and rainy with strong wind during the last two days. Agrica
1		- 1	0.01	ture making good progress. Public health good.
5	Hooghly, " 30		0.91	Weather—cloudy, with high wind. Prospects of all crops good in the Sudd and Jehanabad sub-divisions, and improving in Scrampore. General heal good.
1	Bowrah July 2	,,	2.78*	Gale of wind on Thursday night (29th) from north followed by two days' shows
	Oolooberia		2.50	weather Jute reported damaged by floods, along Damoodar, Aus pad-
*	Cartan I To a second			growing. Sowing of amun going on. Price of rice high,
/ 6	24-Pergunnans, July	2 '93	3.49*	Weather-cloudy; attended with occasional showers of rain. Transplanting
0	and the summary of the		5 40	amun paddy going on in low lands. Early crops doing well. Prospects good
1	The state of the s	-	4	Public health generally good.
7	Nuddes, June 30		0.59	Weather - rainy, cloudy and cool. Crops doing well. Fever unchanged; chole
1	Kooshtes Meherpore	***	2·25 0·74	hus abated.
	Chooadanga		1.66	
1	Ranaghat	400	0.90	Control of the state of the sta
8	Khooina, " 30		3.03	Weather cloudy, with many showers Prospects favourable, Ploughing going
9	Jessore, , 30		1.34	on, and some amun rice has been sown. Public health g od. Weather—cloudy and rainy. Rice crop doing well. Til being reaped Prospec
1 "	Jhenida	**	0 29	favourable. Public health good, except in Bongong sub-division where deat
100	Magura	44	1.84	from fever still continue.
2	Narail	11	1.82	
10	Bongong Muorshedanad, ,, 30	."	0.65 2.27	Weather-much cooled down; a strong east wind blowing with drizzling showe
	, , , , , , , , , , , , , , , , , , ,	"		at times. State and prespects of crops favourable. Bhadoi thriving well, at amun sowing still continues. Public health on the whole good. Weather—cloudy and rainy. Prospects of bhadoi and sugarcane good. Ju
/ 11	Dinagepore, June 29	'83		
12	Rajshahye, ,, 30	71	1·12 Nil	Weather—cloudy and slight rain. Gales of wind for two days. Crops doing we Til crop appears an average one.
	Nattore Nowgong		0.84	
13	Rungpore , 30	,,	3.65	Weather-seasonable. Prospects of aus rice and jute good. Kaon and cheer
1	Kurigram		3.07	being reaped. Transplantuing of amun rice has begun. Cholera somewh
	Gaibanda	***	7.94	prevalent in some parts of the district.
14	Nilphamari		0.98	Weather-continues cool and rainy. Sowing of amun continues, Til and ka.
14	Bogra, ,, 30		0.00	are being respect. Public health good, except in four villages in Bogra that where choices has been reported.
15	rubna, ,, 30	98	1.26	Weather -warm and cloudy with strong easterly wind. Crops progressing
1	Danisalian 00		5.05	well throughout the district. Weather—seasonable All crops doing well. There is still a little cholera bo
16	Darjeeling, , 30	"	0.00	in the Terai and hills.
17	Turpigoree, ,, 30	,,	13 16	Weather-seasonable. Prospects generally fair. From two thanas grove .
ene-	n t Delen		10.45	"eported backward ow.ng to heavy rain.
5 3	Cooch Behar, ,, 29	"	12.45	Heavy rain during early part of week, then a partial heat with occasion showers. Weather close and warm. Prospects of jute improved, Bitrari
2	Dinhatta		3.45	harvest going on slowly. Amun being transplanted. Cholera abating, but at
	up to 24th.		Land State	bad in places.
300	Mathabhanga	1	18:49	
	up to 23rd. Meckligunge		14.02	
MIST.	up to 23rd	***	***	
	Eastern Districts.		TO 100	
18	Dacca June 30 Manickgunge	88	2.34	Weather - windy and cloudy Harvesting of til and aus paddy continues. Sowin of aman paddy going on. Jute and sugarcane thriving.
5	Munshigunge		0.46	in order party going on. Jute and sugarcane thriving.
-	Na a ngunge		1:46	
19	Furreeapore, " 30	**	1.30	Weather very high winds during the last three days; very gloomy with frequen
0	Goalundo Madaripore	- "	2:45	showers. State and prospects of jute, paddy, sugarcane, &c., good. Publ health very fair.
30104	Backergunge, " 28	,,	2 73	Weather-seasonable. Aus crop doing well. Cultivation of amun going of
20		15 3	11-10-00 A COLD	rapidly. General health good.
20		O.C.	1,12,219	
20	Mymensingh, ,, 29		0.89	Weather - warm, with cloudy sky and occasional heavy showers : high east with
20	Jamaipore		1:15	Weather - warm, with cloudy sky and occasional heavy showers; high east win
20		1000	0.89 1.15 1.37 1.87	Weather—warm, with cloudy sky and occasional heavy showers; high east win since evening of 28th. State and prospects of crops slightly improved. River rises very much during the week. General health good, except that choler continues in Sherpur town.

N	о.	District, and return.		of	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and
EN	GA	L -concld.				
. 1		Chietagong Ju		3 '88	7.42	Weather-seasonable. Transplanting of aus and sowing of amun going Prospects fair. Prices steady, Fever and cattle-disease bad in Cox's Baz
1	23	Nonkholly, Ju	ne 2	8 "	3:29	Cholera not yet abated. Weather—variable; generally cloudy; rain scanty; at times very hot. paddy ripening and amun paddy being transplanted generally.
1	24	Tipperah, Brahmunbar	, 2 a	9 "	2·04 0·34	Weather—rainy. State and prospects of crops good. Public health generally go
1	25	Chandpore Chittagong Hill ,	. 2	6	1.75 1.35	Henvy showers throughout the week. Jhum doing well. Cotton crop will
1		Hill Copperate.	, 2	7 "	0.76	short, many of the young plants having been damped off. Weather—warm. Lands being prepared for transplanting of amun pad Moong and sugarcane looking bright. Public health good.
KH	AR				117	
	26	Patna, Ju	ne S	0 '83	1.62	Weather-hot. Sowings of bhadoi and paddy crops are being pushed on in so
1	-	Barh			1.46	places Makai has commenced to germinate. A few cases of cholera repor-
1	27	Behar Gya ,	3	0 ,,	0.23	from Barli and Behar sub-divisions. Weather—overcast, with high winds and showers. Rice sowings are being brisl pushed forward Murwa is being transplanted. Millet and coarse gralargely sown Sugarcane promises well. Cholera very prevalent and cati
1	28	Shahabad	, 3	0 "	3.85	pox reported over a large area. Weather—cool and moist in the east of the district, hot and dry at Bhaboonh
	29	Buxar Bhabooah Durbhunga, ,	, 3	0 '83	1.77 0 4 1.32	the west. East wind. Prospects of crops favourable, except at Bhabooah, wh more sain is wanted. Weather—cool and cloudy with high wind from north-east. The present is
1				7.	٥١	weather following the rain is most favourable for makai, murwa and ot bha loi crops. Low land moong much injured; also low land indigo in so factories. Transplanting of paddy going on vigorously. Prices stational Cholera disappearing everywhere. Health generally good
1	80	Mozuff-rpore, Hajeepore Seetamurhee	, 3		2·64 0·52 1·90	Weather—cool, with east wind. All crops looking well. Bhadoi and aghi sowings in progress. Early rice looks promising Cholora has ceased Hajeepore sub-division. General health much improved in Sudder and See
1	31	Sarun,	. 3	0 ,,	3.36	murhee sub-divisions. Weather—hot and close, generally cloudy. Sowings of makai, kodo, and rai
		Sewan Gopalgunge			4·61 1·49	going on. Transplanting of murwa has commenced. Indigo prospects go The rain has done much good to the crops in field. Sporadic cases of sm pox still reported from Gopalgunge, otherwise public health good. Pri stationary.
1	32	Chumparun ,	, 3	0 "	Nil	Weather—hot and cloudy. Rain has fallen which will facilitate agricultu operations. Sowings of bhadoi crops commenced. Indigo prospects go Public health satisfactory
1	33	Beguserai	ne 3	,83	3.57	Weather—cool and seasonable. Preparation of lands going on rapidly. Sow of Indian corn commenced in some parts. Prospects generally promisi
1	34	Jamui Bhaguipore,	, 3	0 "	3 49 1·13	Public health good. Weather—in first part of week hot and sultry, but latterly cool; strong easte winds. In north of district heavy rain, especially in Muddehpoorah, wh 10.20 inches were registered in one day (25th instant.) Prospects go except in Muddehpoorah, where floods have damaged the young pandy. Fr.
1	85	Purneah,	3	0 "	1.17	seed is being sown. Health good. Weather—fine, with strong easterly wind. Prospects of crops very good. Indi
		Kissengunge Arrareah		***	13.01 11.96	is a little dameged. Health fair.
1		Maldah,		0 ',,	1.11	Rainfall scanty. Weather showery and sultry for first four days of the we since then sky overcast, and a very strong easterly wind blowing. Riv rising. Standing crops doing well. Public health generally good.
1	37	Sonthal Perghs. , Deoghur		0 . "	0.91	Weather—cloudy, showery and unsettled. Bhadoi and winter rice sowii in hand Transplanting going on in the eastern low lands. A little sm
M	SALE.	Rajmehal		- ***	2.62	pox in Deoghur.
		Jamtara Pakour		***	0.84 213	
214	SSA	Godda		•	0.23	
1			ne 2	9 '83	8:64	Weather—cool and cloudy with heavy rain on the 28th. Young plants of be and sarad rice growing well; the former being harrowed in some places. Comon rice selling at from 24 to 28 seers per rupes. Public health good.
1	39	Pooree, ,, . Khoorda	28	3 ,,	0·80 1·16	Weather—showery, with strong south-westerly breeze. Sarad sowings of tinue in some places, elsewhere puddling has commenced. Cotton bei gathered. Common rice selling at from 25 to 42 seers per rupee. Pub
(40	Balasore, "	20	,,	3.33	health good. Weather - cloudy and rainy. Prospects of crops good. Sowing and ploughi going on. Sugarcane progressing well. Public health generally good.
		NAGPORE.				
	41		10 2	9 '83		Weather—cloudy. Good rain reported throughout the district. Sowing paddy and bhadoi crops going on. General health good.
500	42	Lohardugga	3(100000	1.7	Weather-rainy. Prospects of c rops favourable. Public health good.
	43	Singbhoom, ,,	29		1.44	Weather—seasonable. Rainfall has been general and sufficient for prese requirements. Everything doing well. Agricultural prospects favourab
	44	Manbhoom, ., Govindpore	30		1.90 0.54	General health good. Weather—rainy and cool. Sowings progressing everywhere. Rice seedlin promise well. Indian-corn, moong, rahar, &c., being sown on uplands. Sug cane flourishing. Public health good.

Meteorological Report of the Province of Bengal

		THE COMPANY OF THE PARTY OF THE					4500	STATIO	N OBSE	RVATIO	JAS.	4				1
			An	R PRESSU	TRE.	Wini	D.			TE	MPERATU		100		humidity for week.	
	DISTRICT.	Representative station.	Mean barometer height, 10 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction,	Mean wind velo- city miles per day.	Highest during week.	Lowest during week.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily tem- perature of week.	Variation from normal mean of week.	Mean 10 A. M. temperature.	Average hum at 10 A. M. for w	
		Gopalpore	29.572	29.622	-	s	195;	85.6	79'8	83.2	80.2	82'0		63:3	83	1
1	Pooree {	False Point	1270	*597	-001	Variable	285	50.9	70.6	87:9	77.6	82'8	-1.6	84'0	78	1
-	Cuttack	Cuttack	*523	'608	0	Variable	79	94'4	76.3	92.0	78'3	85.2	-1.0	85'6	75	-
U	Balasore	Balasore	*522	*580		Variable	89	50.4	75.7	58'9	77.8	83.4	- 1	84'9	80	1
r	South-West Midnapore	Semmer Tule of	1808	*562	-033	s	442	92.5	74'5	89.8	78'9	84.5	-0.3	85.2	77	1
	South 24-Pergunnahs	Saugor Island	*537	202	033	+	442	22 E		100		040	11.72		. 77	1
1	Midnapore	Midnapore	*448	-	-	SE	9	96.2	76 3	93.8	77'3	85.6	-	85'1	76	-
H	24-Pergunnahs)			1,000					1		- 11		100	-dycirles		1
	Howrah	Calcutta	'549	*570	-052	E	168	91.2	76.7	89.6	78.2	83.9	+0.1	84'7	81	1
	Hooghly			12.4	24								14-15			1
ļ	Burdwan	Burdwan	*502	*602	+.008	8	130	93.6	77.4	91.4	78.4	85'1	-0.5	84.9	77	1
H	Bankoora												JI U			1
	Beerbhoom	Ranigunj					O	bservator	y not con	nmence	1.		1 43		11-11-11	1
	West Burdwan				2							1 =	140	7 177		1
	Moorshedabad	Berhampore	554	'621	+037	Variable	147.2	91-1	77.3	89.5	78.0	83.7	-1.0	88'4	84	-
	Nudden	*****			100								· / 1761	1000	V.	1
	Jessore}	Jessore	*585	·618	+012	Yariable	168.2	92.4	74.1	96.8	77.9	84'1	-0.4	85*2	81	1
1	Khoolna)	Chitte				on.	300	86.7	More			00.0		-		1
	Chittagong	Chittagong		-690	+016	SE	130	0hsm	73.0	85'6	75.6	80:0	-1.8	82.6	80	1
	Chittagong Hill Tracts	Demagri							rvatory n				- 10			1
	Backergunf	Barrisal						Dit		ditto		1	14-14-10	Z	3.43	1
	Noakholly	Noakholiy, Furreedpore						Dit		ditto.			-	- Section	3 12	1
	Furreedpore	Dagge	+000	*644	+022	-8	161	1 92·8	76.5	88.9	78.2	83.6	+0.1	851	1	1
il	e	Committee	1007	1662	+022	Variable	9 P	85.6	74.8	88.0	78.2	79.6		82.4	72 83	98
	Mymensingh	Mymensingh	637	_	_	E	185	92'3	76.1	89.0	77'9	83.2		84.5	78	31
1	Bogra and Pubna	Serajgunj	301				1200-1111-12		tory not e			30 0		11000	10	1
	Rajshahye	Rampore Beauleah	*545	619	_	Variable	316	102-6	76.6	93.2	781	85.7		84'4	81	1
	Linagepore	Dinagepore		-	_	Variable	147	911	75.1	80'2	77'7	83'4		84'8	70	8
	Rungpore	Rungpore		-	_	SE	123	91.8	64.6	87'9	74'7	81.4	_	88'5	82	3
	Julpigoree)	Tol-loons		15									him page		THE STREET	34
148	Cooch Bebar	Julpigoree	*323	-	-	9	161	91.0	75'1	86'9	76.5	81.2	-	80.0	68	
X	Darjeeling Hill Districts	Darjeeling	22'917	-	-	E	79	68.6	-	65.49	-	-		61.7	98	1
7	Purneah ?	Purneah	197.90	4000			D4	92-7	73.4	pour			FE SE	Fe Direct	No.	4
1	North Bhagulpore 5	Purneah	'507	*638	024	Calm	31	92.4	15'4	89-6	77.4	83.2	-0.6	\$3.6	100	1
	Mozufferpore}	Durbhunga	*466	*632	+024	ESE	130	91'4	77.5	87.3	78-9	pour	-1.5	ph.		1
	Durbhunga 5		200	902			200	67.46	170	01.0	10.0	83'1,	-1.8	83:0	86	1
μ.	Chumparun	Motihari	7	-	-	8E	-	-891	-	87'8	-	7	-	86.1	75	
9	Sarun	Chupra	-	-	-	ESE	27	94'5	74.5	98.7	77:0	85'4	-	84'8	97	
	Shahabad	Dehree		29'597	-	9	Ρ .	93'4	69.0	89.6	73.0	81.7	7	88'2	70	21
ļ		Buxar		-	-		154	95 9	,75.8	93.0	79.6	86'3	-	87'4	72	1
95	Gyв	Gya	1	.203	+015	Variable	45	97'2	73.8	95'6	75.2	85'4	-1.7	871	71	81
3	Patna	Bankipore	438	'621	+049	ENE	113	95 5	76.7	92.6	79.7	86.5	-1.6	847	82	1
ж.	South Bhagulpore }	Bhagulpore	*467	-610	-	NE	93	91'4	76.0	89.0	77'9	83.2	-	84'1	81	
g.	Moughyr)		D. A.			- partie						1 000	MARKET SECTION		1	
	Sonthal Pergunnahs	Naya Doomka	Stroggille	NEY.	ILLE IN				tory not o			S. Cales		The state of	1	
		Hazaribagh	27.610	29.591	*+025	Variable	178	90.5	72.6	86.8	1 74.4	80.0	-0.6	81'6	74	
	Warnhisen	Ranchee	ACRES NO.		Market .	EV-1601001		Obser	vatory no	ot starte	d.		SHEET,	551000		۱
1		Climbons	40			1						1493 1424	1000	134159	200	1
d	Singhonoom	Chybassa	46.00		EXTENSION OF	-	SHEET STATE	Dit	to	ditto		The Section	URGS (1000	13983	w

Explanation of Summary.—The normal means of air pressure and temperature are the arithmetical averages or means of the readings during the same The humidity of the atmosphere is expressed as a percentage, saturated are being represented by 100. A clear sky is denoted by 0 and an overcast sky vations, rainfall, the normal means are the numerical means or averages of the rainfall in that district determined from the returns sent in by the sub-district from that district, (i.e.) the total rainfall at the sub-divisional stations in the district sending in returns divided by the number of stations. A rainfall

for the week ending 29th June 1883.

		1									W		- Contraction	40025	76
om,	The second		Name of State	1000	R	AINFALL.	- 16		12 m 2 1	L 10	and the second		40		
stati	G036	week.		e 1st of mor	ith.		e 15th May	-	days	days	Representat	live	DISTRIC	r.	
observing station.	Normal mean for district.	Average for district.	Mean for district.	Normal mean,	Variation.	Mean for district.	Normal mesn.	Variation.	Average number, of rainy days during the week,	Normal number of rainy days of week,					
4.06	W.		1								Gopalpore	}	Pooree		
5'58	3.27	9'56	15:36	8*48	+6.88	16.01	10.06	+5'95	3:5	2.7	Fulse Point	5	roores	***	**
6.01	3.36	5.26	11:04	8:35	+2.69	14'84	10.12	+4 67	5.3	2.6	Cuttack	***	Cuttack	***	***
1294	2.52	6.50	13'52	7.20	+6*32	14'87	9.59	+5.28	4.8	2.6	Balasore	***	Balasore		
5.00	2.74	3.51	8'85	9.39	-0.24	11.11	12.04	-0.93	4.7	3.5	Saugor Island	1{	South-West Mi South 24-Pergui		
0.57	2.25	3.03	6'55	9.42	-2.87	7.05	11.85	-4.80	4'0	3.4	Midnapore		Midnapore		
	and a		1						1			1	24-Pergunnahs		100
1.95	2'45	1'83	9.11	9.63	0.25	10.12	12.70	-2.55	4'3	3.4	Calcutta	-1	Howrah		
		7				1						-	Hooghly		67
3.85	2.26	1'86	8'21	8'73	-0.52	12.28	10.98	+1.60	4.0	3.5	Burdwan	,	Burdwan		
		17/13/14		0.80800								. (Bankoora		72.18
	3.03	2.05	12:44	10.79	+1'65	15'14	12.42	+2.72	3'4	8.3	Ranigunj	}	Beerbhoom	***	***
	12 N 14					130.5(3.5)			0.77				West Burdwan	***	***
2.10	2*60	1.28	9.50	9*26	+0.24	13.72	11.71	+2.01	2.7	3.1	Berhampore		Moorshedabad	15	111
	2:17	1'04	7.78	10.10	- 2'37	11.15	13.55 +	-2.43	3.2	3'4			Nudden	***	
- 41			1000	50.55						1,000		0	Jessore		373
6.46	2.70	1.61	8:36	12'50	-4:14	10.73	16.11	-5.38	4'8	4.0	Jessore	{	Khoolua		
3.49	7'04	9.02	42.39	28-59	+13.80	50-51	83-95	+16.26	4'5	4.9	Chittagong		Chittagong		***
101	3.50	2.58	18'97	19.18	-0.51	20.23	23:22	-2.69	6.0	4.9	Demagri		Chittagong Hill		ta
41	5'05	3.26	14'83	20'34	-5.21	17.56	24.74	-7:18	5.2	4'8	Barrisal	***	Backergunj	400	4393
	5.72	5.48	40°34	27.58	+12.76	43:17	33.43	+9'74	8.2	4.6	Noakholly		Noakholly		
tion	3-22	5.15	7.27	12.75	-5.48	11.16	17:31	-6.12	4.7	4.2	Furreedpore		Furreedpore -		
2:97	5.60	1.96	7:57	13.18	-5.61	10.85	17.88	-7:03	3.2	41	Dacea		Dacca		5113
476	3'54	4.16	16.51	17.50	-1.59	21.14	22.20	-1.08	4.7	4.7	Commillah	***	Commillah	***	
130	3.13	1.08	9'16	16.28	-7.42	18.26	21.84	-8.28	5.2	4'8	Mymensingh	***	Mymensingh	***	***
Terror	2'92	1.03	8:71	12.09	-3.38	13.89	16.11	-2.22	2.8	3.3	Serajgunj	***	Bogra and Pubr	10.	***
1*26	2.60	0.24	8:22	10.43	-2.51	12:40	13.50	- 0.80	4.0	3'4	Rampore Ben		The second secon	200	100
3'31	4.04	1.76	10.80	15:31	-4.21	14.33	18.38	-4.02	4.7	3.3	Dinagepore	***	Dinagepore	***	***
8.44	5.48	8.58	13'96	21.16	-7.20	16:35	28*35	-13.00	4.8	41	Rungpore	***	Rungpore	***	100
		0.00	2000	P4 40	-1 20	2000	30 00		1			(Julpigoree	**	
4:42	8.86	9'81	25.06	32.02	-6.99	31.41	4175	-10'34	5'4	5'5	Julpigoree	. {	Cooch Behar		
3.97	11.50	10.52	44.76	35'42	+9'34	53.22	44.21	+9.34	6.2	5'7	Darjeeling		Darjeeling Hill	 Dista	icta
5000	COLUMN TO SERVE	10 21	22,70	00 42	40.01	00 00	22.21		3.0	-			Purneah		
4	2.00	7.86	22.93	10.83	+12.10	24'14	13.13	+11.01	3.6	2.8	Purneah	{	North Bhaguip	ore	
100			Control in the		3. 7. 1					1			Mozufferpore		
80.8	2.12	1:27	15.11	7.01	+8'10	15.95	8.10	+7.76	2.8	2.7	Durbhunga	{	Durbhanga	***	
0.50	8'21	0'86	4.76	8:57	+3.81	6.36	9*69	-3'33	2.7	2.8	Motihari		Chumparun	+	***
5:28	2.88	2.08	9.78	6'46	+3.27	9.86	7:36	+5.20	2'5	2.7	Caupra		Sarun		1.
285				7	7.5						Dehree)	7.53		
264	2:51	2.16	* 7'85	5'00	+2*35	7.86	5'52	+2'34	2'4	2.8	Buxar	6	Shahabad	***	30
0.23	2.11	1.89	10.28	5.07	+5.21	11.30	6'33	+4'97	3.0 1	2.8	Gyn	*	Gya		344
-62	2.35	1.33	16:57	09.0	+10.88	16-63	6:99	+0.64	2.3	2.7	Bankipore		Patna	2000	**
9.64	1						I william						South Bhagulpe	ore	***
198	2.27	202	10.88	6:38	+450	11.77	7.76	+4'01	3'4	2.0	Bhagulpore	{	Monghyr		
	2'89	1'00	11:15	8196	+2:19	13.09	10.66	+2.43	818	2.6	Nya Doomka		Sonthal Pergun		***
75	2:03	0.45	6'06	7.88	-1.55	7'34	9:39	-2.02	2'7	3.6	Hazaribagh		Hazuribagh	BOTH.	
	1000			Total read	0.00							,	Lohardugga	***	***
-	2.72	1'33	10'56	7'54	+3'02	12'14	8:91	+3.23	4'3	3.6	Ranchee	{	Manbhoom	1	100
COAPLE	HEROTEC I	A STORY	POST POSTA CINCOLO	S (120 17 17 17	PHYSIDAL DE ROY	Part of the latest	PROPERTY.		A Company		IN THE RESIDENCE	III C.	- and Ontouth	100	1226

period for the past 12 years. The variations are negative when the mean for the week is less than the corresponding normal mean and postive when greater, by 10. The manner denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head 'district obsertional stations for the period in question during the past 12 years. The "means for the district" are the numerical averages of the rainfall returns received day is one on which at least an hundredth of an inch fell.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 29th of June 1883.

					R	AINFALI		- 1,85		Tot	al.	1000000	Average		Average
Meteorological division.	District.	Station.	Saturday, 23rd June.	Sunday, 24th June.	Monday, 25th June.	Tuesday, 26th June,	Wednesday,27th	Thursday, 28th June.	Friday, 29th June.	Number of rainy days.	Rainfall of week.	Total rainfall from 1st to 29th June.	total rainfall from 1st to 29th June.	Total rain- fall since 15th May.	rainfulli from 15tl May to date,
ORISSA	Pooree	Pooree Khurdah Banpur False Point			9°07	0.80 0.82 0.33	0°34 0°29	0°59 0°60 8°04	9°44 7°98 8°42 5°39	8 4 3 4	10.83 9.58 4.09 13.75	16:29 17:32 7:44 17:97	7:93 9:15 9:13 7:71	16'64 17'97 8'46 19'42	8°70 11;4 10°2° 9°80
	Cuttack	Jagatsingpore Cuttack Kendrapara Jajpore	0.20	0.50	0.00	1.43	0.05 0.03 0.03	1'79 2'70 2'8)	5.61 3.60 1.98	6 4 6	9°14 6°52 6°62	19.88 12.82 9.98	6.61 9.57 7.84 9.38	24°77 15°22 14°11	8'0 11'3 9'8 11'7
	Balasore	Chandbali Bhuddruck Sorah Balasore Jerlasore Baripodah	0.64	1.20 3.38 1.12 0.13 0.19	0.50	0.57 0.10	2·25 1·31 0·22 0·04 0·22 0·23	3°25 1°78 1°50 0°94 3°40 1°12	0°98 1°60 2°65 5°00 1°60	4 4 5 5 7 4	8°10 7°40 4°08 5°32 9°14 3°14	16.55 13.02 11.57 12.15 15.34	6°30 8°51 5°77 6°39 6°56 9°09	14·78 15·30 15·73	7.0 11.4 9.6 8.8 11.0
OUTH-WEST BENGAL.	Midnapore	Contai Sanger Island Temlook Midnapore Ghattal		0°19 0°70	0.55	0.40	0·47 1·00 0·90 0·03	0°76 0°20 0°27 0°18	3°76 0°17 2°40 2°30 0°98	4 4	5.05 1.56 3.90 2.79 2.41	9:85 11:78 6:70 6:02 6:94	9°15 9°01 8°88 9°34 10°04	14°18 13°20 7°60 6°38 7°17	11.8 11.2 11.2 11.3
	24-Pergunnahs	Diamond Har- tour. Alipore Jail Barrackpore Dum-Dum Baraset Buseerhat	1°19 0°02 1°03	0.18	0.14 0.81 1.18 0.31	0.15	0.21 0.58 0.17 0.18	0.65 0.05 0.20 0.07	0.62 1.20 0.68 0.76 0.72 1.24	.6 4 8 5 8	3.03 2.64 2.07 1.16 1.09 2.68	8'64 9'59 8'40 8 66 12'26	10.01 10.11 10.82 9.80 9.62 10.25	5-96 9-06 10-72 8-93 9-89 13-96	12:7: 13:0: 13:2: 13:1: 12:7: 14:4:
	Howrah	Howrah Mohesreka		0.32	0.13	0°49 0°05	0.58 0.01 0.58	0.20	1.18	5 6	2°16 1°91	8°59 7°96	'9'76 9'34	9°27 8°37	12:3 12:8
	Hooghly	Serampore Hooghly Jehanabad	0.63	0.14	0.82 0.12	0.08	0.03	6:09 0:24	0.83 0.41 0.23	5 5 3	1.69 0.51 1.65	7:99 8:99	9°54 8°81 9°48	10°88 10°37 9°99	11.7 11.7 12.6
	Burdwan	Culna Burdwan Cutwa Raneegunge	2°53		0.21 0.16 0.51		0°07 0°30 0°30	0.10 0.03 0.03	0.30 0.22 0.08	3 5 4 2	0.92 3.97 0.70 2.65	7'77 11'32 5'56 - 18'58	8°44 7°98 9°76 7°7d	11°83 14°23 12°15 22°48	10°50 10°71 11°63 9°50
	Bankoora	Bankoora Bishenpore Maliara Khatra	0·14 3·76 0·25	0.10			0°13 0°27 2°20	0°15 0°31 0°10 0°07	0.90 0.20	4 2 4 4	1 02 0 81 4 23 3 37	6:34 10:70 11:98 8:60	9'74 11'99 11'01 12'16	7 68 13 09 18 51 10 84	11:96 13:66 12:06 13:7:
	Beerbhoom	Bh. Soory Hetampore	0.62	0.05		0.29	0°29 0°55	0.05 0.02	0.03	6 2	1.64 0.62	18.70 8.09	10 03 12 81	22°55 11°67	11:0
	Nuddea	Bongong Ranaghat Kishnaghur Chooadanga Meherpore Kooshtea	0'11	0.12 0.12 0.08 1.50	0'60 0'26 1'19 0'06	0.01		0'06 0'11 0'20 0'24 0'34	0.70 0.25 0.03 0.32	1 4 3 2 5	0.70 1.02 0.52 1.39 0.75 1.87	8.75 10°45 3°63 4°01 7°80 11°58	10:74 9:30 9:26 9:85 10:02 11:45	10°88 12°56 6°30 7 30 12°52 16°79	14'11 11'25 14'4 12'46 15'30
	Khoolna	Satkira Bagirhat Khoolna	0.18	0.02	0.21	 0'10	0°10 0°17 0°02	0*39	1.20	6	1.92 3.03	10.02	12'06 14'30 11'90	13·91 12·75	15°3′ 18°1′ 15°2′
	Jessore	Narail Jessore Jhenidah Magoorah	0°45 0°06 0°88	0.46	0.02	0.04	0°10 0°04	0.19 0.18 0.19	0°41 0°78 0°06 0°10	4 5 4 5	1°42 1°05 0°35 1°86	5:56 6:61 5:71 9:89	11.99 12.91 13.98 10.81	11.79 14.10 9.62 12.68	15:49 16:01 16:75 13:30
	Moorshedabad	Kandi Rampore Haut Berhampore Lalbagh Azmgunge Jungipore Lalgola	2.90 1.91 0.44			1'14	0°20 0°63 0°96 1°09 0°70	0.02	0.04 0.04 0.06 0.02 0.03 0.04	3 3 3 1 4 2	3·17 2·59 2·16 1·09 1·18 0·13 0·74	9'60 15'25 8'37 7'30 8 56 9'14 8'94	9°83 9°90 9°88 8°56 9°63 8°65 8°37	13:43 16:54 18:92 11:48 14:47 13:95 12:23	12:10 11:53 12:70 11:53 19%
AST BENGAL	Chittagong	Cox's Bazar Unitingong			8.76	0.13	0.15	0.46 0.26	4'91 4'91	4 5	11°61 6°43	45°29 37°11	33.85 25.27	52.24 46.30	30°58 28°26
	Chittagong Hill Tracts.	Rangamati Ruma Agartola	0.12	0.04	0.10	0°15 0 62 0°53	0°37 2°50	0°17 0°35	1.87	6	2°28 5°05	18'50	18.63 19.74 18.88	21/33 15/18	23°48 23°97 18°78
	Backergunge	Patuakhally Perozepore Burrisal Bho,a	0.24 0.02 0.82	0.65 0.15 0.05	0'80 0'34 0'17 0'21		0.05 0.41 0.25 0.05	1.35 0.98 0.64 1.03	1'40 2'10 0 87 1'75	5 6 6 5	4:45 4:39 2:02 3:39	17:10 13:63 10:16 18:46	23'40 16'29 16'24 25'41	19°60 14°88 14°77 21°01	28-48 19-89 20:60 20:89
	Noakholly	Noakholly Fenny		0.39		0.25		0°25 0°16	5'50 4'26	3 4	6.14 5.18	86°02 41°78	26 67 28 48	41°17 44°29	32-20 31-55
	Furreedpore	Madaripore Furreedpore Goalundo	0.49 0.81	0.12	0.03		0°78 0°50 0°27	0.10 0.13 0.83	0.20 0.10	4 4 6	3°50 1°32 1°55	6.84 5.28 9.74	12:91 12:94 12:38	17.00 5.25 17.00	17:73 17:96 16:25
	Dacca	Munshigunge Ducca Manickgunge		0.21	**************************************		0°95 1°68 0°76	0.21 0.27 10.16	0 78 0 39 0 26	3 4	1.89 2.34 1.69	7'47 8'71 4'16	16:30 13:50 9:79	10°15 11°37 8°67	21 10 18 28 13 98
	Comilla	Comilla Chandpore Brahmunberia	0.03	0.80	0'49 0'45 0'15	0°11 0°25	0.20	0°02 1°75 0°30	2:46 2:05 1:15	6 4 5	4:48 4:50 2:63	20°73 14°55 7°71	18'12 22'44 10'55	23°38 18°50 16°90	23 46 25 80 20 67
	Mymonsingh	Kishoregunge Atia Symensingh Janualpord	0 17 0 47	0.61	0'08 0'42 0'10	0'09	0·12 0·50	0°21 0°25 0°07	0°42 0°40 0°10	3 7 4	1'45 1'25 1'14	8.87 9.44 8.47	20°03 14°72 18°28 14°20	15°48 13°94 10°86	18,00 50,89 18,88 82,02
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Explanation indicates that not rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 29th of June 1883—concluded.

					R	AINFALI				To	TAL.				
Meteorological division.	District.	Station.	Saturday, 23rd June.	Sunday, 24th June,	Monday, 25th June.	Tuesday, 26th June.	Wednesday, 27th June.	Thursday, 28th June.	Friday, 29th June,	Number of rainy days.	Rainfall of week.	Total rainfull from 1st to 29th June.	Average total rain- fall from 1st to 29th June.	Total rainfall since 15th May.	Average rainfall from 15th May to date.
NORTH BENGAL	Pubna	Pubna Serajgunge	0.02	0.25			-0.22	0.20	0 41 0 06	4 2	1°26 0°56	9°34 8°46	11:37 10:89	12:48 16:16	15°20 14°00
	Bogra	Sherpore Nowkhilla Bogra Panchbibi	6.32	0.15	0.06 1.20		0°57 0°13 0°02	0.02 0.53 0.53	0.08 0.08	3 4 5	0°68 0°62 0°98 1°59	5.53 6.44 7.31 9.63	11.61 12.70 13.80 11.28	8°16 8°86 10°28 12°20	16°77 16°17 18°48 15°0
	Rajshahye	Besuleah Nattore	0.51	0.81			0.03	0.08	0.04	5	1'12 Nil	8.82 6.30	9:69 10:45	9:31	12'6
34	Maldah	Maldah	0.08	0.05	0.23	0.33	0.03	0.39	0.02	7	1.11	9.60	11.16	11.88	13.4
	Dinagepore	Mohadebpore Churamon Raigunge Dinagepore	0.08	0°24 0°85 1°95	0°35 0°71 0°40 1°21	0°21 0°07 0°19	0.09 0.02	0.05 0.15 0.05	0°07 0°02 0°04	3 5 5 6	0°80 1°30 1°46 3°49	6:22 11:20 12:47 12:91	17'45 13'80 15'22 16'24	8'97 13'59 14'18 15 97	20°7. 14°5 19°1 20°0.
	Rungpore	Bhawanigunge Rungpore Kurigram Baguogra	1.07 0.21 0.35	0°97 2°00 0°57 1°79	0 67 0 15 1 59	0.01 0.90 0.30 5.00		0.30 0.00 0.08	0.02	5 5 5 4	2°14 8°60 1°67 6°49	15*94 10*28 15*13 17*89	15°21 18°85 22°07 28°47	21:51 17:23 22:72 23:14	20°6 25°3 30°6 37°3
Acido Como	Julpigoree	Julpigoree	2.92	6.24	1.76	1.92				4	13.16	33.82	27.99	61'24	341
	Cooch Behar	Dinhatta Cooch Behar Mickligunge Matabhanga	0°13 1°61 3°12	0°76 0°14 1°22 2°52	0.65 2.73 4.78 2.62	3.04 5.74 1.62 3.73	0.01	0°30 0°41 0°16	0°15 0°18 0°09 0°17	4 6 6 7	9°22 9°73 12°33	13°57 24°49 23°26 33°20	32:20 35:88 30:11 34:07	23°60 35°10 81°75 40 55	43°4 44°3 40°7 45°3
	Darjeeling Hill.	Buxa Darjeeling	3.78 0.78	0.28 2.33	3.85	2°14 0°58	0.46 0.40		1.82	5	15.26 2.00	49°25 38°69	47.93 22.91	51°33 40°77	61° 26°
ORTH BERAR	Purneah	Kissengunge Arrareah Purneah	0°37 0°10	0.17 0.20	5°25 7°04 0°63	4°20 4°05 0°31		0.01	0.12	3 4 5	9°62 11°66 1°17	28.85 10.10 55.63	15.08 12.91 11.87	24.71 29.48 11.35	18: 15: 13:
	North Bhagul- pore.	Maddapore Soopool			10.20 5.30	0°25 0°26		0:30	0.25	4 2	11:00 5:56	29°51 23°72	6°80 8°20	48°21 24°57	8 9
	Durbhunga	Tajpore Durbhuoga Madhubani	0.10 0.68 0.10	0.03	1'32	6.02	0.05 0.21	0.18	0.08	3 4 3	1°23 2°08 0°80	14°19 19°10 14°30	6:36 7:11 8:01	14.80 20.24 16.07	7: 8: 9:
	Mozufferpore	Sitamarhi Mozufferpore Hajipore	0.30 1.82	0.35		0.40	0°13 0°34 0°05			2 3 2	0°43 2°64 0°45	7:32 20:04 15:05	8°05 6°47 5°05	8:01 20:82 15:72	9
	Chumparun	Motihari Bettiah Gopalgunge Sewan Ohaprah	0.00		0.81 1.08	0.04 0.28 1.06 3.29	0°30 0°67 0°07	0.03	0.01	3 3 3 2	0°19 0°10 1°39 2°81 3°36	5°18 4 74 4°30 7°58 11°87	8:34 9:00 8:36 7:23 5:68	6'91 5'97 6'21 7'83 11'87	9 10 8 8
OUTH BEHAR	Shahabad	Buxar Dehree			0.32	0°61 2°30	0.51		******	3	1 17 2.85	7.61	4:59	7.83	5
		Bhubooah Sasseram Arrah	0.52		1.65	0'40 2'22 2'20	0.04		*****	1 3 2	# 0°40 2°51 3°85	2:10 7:33 11:62	5'30 4'72 5'38	3.00 8.21 11.68	
*	Gya	Aurungabad Gya Nowadah Jehanabad	0.04 0.11		0.08	0°38 0°19 0°56	0.69	0.10	*****	3 4 3 2	8.05 0.29 1.01	8°38 14°57 8°07 11°32	4'81 5'33 5'43 4'71	1 1000 16'46 8'44 11'32	* 5 G 7
	Patna	Patna Dinapore Behar Barrh	0°97 0°10 0°62		0.02	0.65 0.85 0.90 1.35	0.02		******	2 2 2 3	1.62 0.65 1.48 1.26	14.77 11.05 26.05 14.39	6°59 6°18 5°46 4°53	14°92 11 10 26°05 14°44	8 7 7
2,	Monghyr	Begooserai Monehyr Jamui	0.20 5.50 5.53		2.85 0.30 0.10	0.02	0.63 0.84			2 4 3	3°48 1°19 3°49	18:75 8:82 6:73	5°30 6°09 6°24	20°70 10°14 6°85	7
return to N	South Bhagul- pore,	Banka	0.15	******	0:74	0.12	0°26 0°53	0.05	0.05	5 3	1:18	14.53 5.57	6.65 7.59	15:41	8
	Sonthal Pergunnahs.	Rajmehal Godda Pakour Nya Doomka Dooghur	0°15 0°11		1.02	0.04 0.31 0.45	0°23 0°16 0°20 0°62	0.70	0°06	3 3 3 8	1'32 0'53 1'35 0'78	7.86 5.47 17.21 13.75	16:42 7:28 10:29 9:01	8:96 6:22 24:55 15:11	12° 8° 11°
	W.	Jamtura				0.14	0°83 0°84	0.50	0.14	3	0.82	11.57 11.06	8.20	14°06 12°65	101
PORE,	Hazaribagh	Pachamba Hazaribagh Semtagurh Mahudi Hills	0.07		0'45	0.00	0.29	******	0.03	3 4	0°75 0°80	7:94 6:57	8°44 6°33 8°78 7°94	8:30 8:11	10 9 7 9 10 7
	Lohardugga	Ranchi Palamow	0.18	******	0°77 0°15	0.38	0.00	*****	0.31	5 3	1.70 1.07	12:34	7-73	14.20	9:
	Singbhoom "	Chyebassa	0.02			: 0.87		0.25	1.24	4	2.08	6:21	5°79 8°43	7:35	6
	Manbhoom	Furulia Sobindpore	0.79 0.15		******		0°32 0°10	0°50 0°05	0.50	4	1'90 0'38	13.26 7.01	8'54 8 06	14 89 8 54	9 8 9 7

Explanation indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returns are

SUMMARY OF METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, 29th JUNE 1883.

The chief feature of the meteorology of the past week has been the formation of another cyclonic vortex, which has given heavy rain to Orissa and the adjacent districts of South-West Bengal. At the beginning of the week under review pressure was increasing, and considerably above the average. This accompanied a partial break in the rains; in other words, although ordinary monsoon winds Tois accompanied continued, rainfall was local rather than general in character. Behar and North Bengal continued to receive fairly general rain. But in Orissa, South-West Bengal, and more especially in East Bengal, the rainfall was confined to local showers of short duration and generally limited in amount. This continued until Monday afternoon. On Tuesday morning the first indications were shewn of the commencement of the formation of a cyclonic vortex near the head of the Bay. The logs of ships already received shew that for one or two days previously weather had been squally, with strong monsoon winds and heavy rain over the centre and north of the Bay. The cyclonic vortex formed near the Sandheads and continued almost stationary until Friday morning, when it began to move to the westward. It crossed the Balasore coast about midnight, and was to the north of Cuttack, probably in the hill district of Northern Orissa at 10 A M. of Saturday. The first effect of its formation was to diminish the wind amount and rainfall in Bengal and Orissa. Skies, however, began to cloud over in Orissa and South-West and East Bengal on Wednesday, and fairly general rain commenced over that area on Wednesday afternoon and continued for the remainder of the week. The rainfall was excessive in Orissa, more especially the central districts, and heavy in the south-western districts of South-West Bengal with the continuance of the indraught. Skies were less clouded in North and Central Bengal and North Behar, and the rainfall there during the last three days of the week was small in amount and local in character.

The variations in the elements of meteorological observations have, as a consequence, been considerable. The mean pressure of the week is above the average by small amount, except for Orissa and the south-west districts of South-West Bengal, where the defect ranges from zero to—'05". The mean temperature of the week was generally below the average by small amounts, averaging 1° for the Province—The highest emperature registered during the week was 97.2 at Gya. The wind was variable in direction in South-West Bengal, Orissa, and Chutia Nagpur, in consequence of the influence of the cyclonic disturbance. In East Bengal south-east winds have prevailed, and in North Bengal and Behar easterly winds. The indraught to the cyclonic vortex increased from Tuesday untill Friday evening, when unusually strong winds were blowing in South-West Bengal and Orissa. The greatest velocity of the wind at Saugor Island—40 miles per hour—from 3 P M to 5 P.M.

The following table gives a summary of the temperature and rainfall data for the past week:—

			TEMPER	RATURE.			1				RAT	NFALL			*	
	week.	week.	∆ver	age for v	veek.	kabove (+)	,	Of we	ek.	R	iny	days.	Since of mo		Since	e 15th
METEOROLOGICAL DISTRICT,	Highest observed during	Lowes: observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week abov or below (-) normal mean	Average.	Normal average.	Variation.	Average number for week,	Normal average num- ber for week.	Variation from week.	Average.	Normal average,	Ауенадо.	Normal average.
Orissa South-West Bengal East Bengal North-Bengal North Behar South Behar Chutia Nagpur	94°4 96°5 92°8 102°6 97°2 94°5 90°5	70'6 74'1 78'0 64'6 69'0 73'4 72'6	88°1 90°7 86°4 89°1 92°0 89°6 86°8	78°6 78°1 77°2 76°7 77°3 77°8 74°4	83'4 84'5 81'8 82'9 84'6 84'0 80'6	-1:3 -0:3 -0:6 -1:7 -0:9 -0:6	7.52 1.86 8.60 8.42 8.42 1.57 1.27	2:97 2:57 4:04 4:83 2:73 2:46 2:39	+4'55 -0'71 -0'44 -1'41 +0'89 -0'89 -1'12	4.5 3.8 4.7 4.3 3.0 2.9 4.0	2.6 3.4 4.6 4.2 2.4 2.0 3.0	+1'9 +0'4 +0'1 +0'1 +0'6 +0'9 +1'0	13'94 10'59 14'88 15'35 16'60 9'67 7'68	7°98 9°99 19°80 20°09 6°52 7°84 9°06	15.87 13.72 18.74 20.54 17.48 10.61 8.80	9.86 2.69 14.16 26.01 27.76 9.25 16.77

The rainfall of the past week has been very unequally distributed. Excessive rain was recorded in Orissa (more especially the northern districts) during the passage of the cyclonic disturbance across it. Heavy local falls of rain have occurred in the Purneah and North Bhagulpore districts of North Behar, the Julpigori district of North Bengal, and the Chittagong and Noakholly districts of East Bengal.

The rainfall has been in defect in all other districts. The deliciency is most marked in the central districts of North and East Bengal, and appears to be due mainly to lightness of the showers, as the number of rainy days is slightly in excess of the average over the Province. Saturday, 23rd June.—The barometer had fallen rather rapidly during the past 24 hours

in Orissa, East and South-West Bengal, and risen slightly in North Bengal and Behar.

Pressure exceeded the normal by amounts varying from 05" at Calcutta to '11" at False Point. Temperature was increasing, and was normal or slightly in excess, except in South

and Central Behar, where the mean of the preceding 24 hours was 3° below the average. Light winds prevailed at the head of the Bay. Winds were normal in direction over the Province, but feebler than the average. The air was moister in Behar, Chutia Nagpur, and the northern districts of North Bengal, where skies were also overcast, and fairly general rain fell. Local showers occurred in Orissa, South-West and East Bengal. They were generally very light. Maliara (in Bankoora) received 3.76 inches, Burdwan 2.53 inches, and

Kandy (in Moorshedabad) 29 inches.

Sunday, 24th June.—Pressure had altered very slightly, but somewhat irregularly during the previous 24 hours. Temperature continued to increase, and was now either normal or slightly above the average. Light to moderate southerly winds prevailed at the head of the Bay, and gave light monsoon winds over the Province. The air was considerably drier in Bay, and gave light monsoon winds over the Province. Behar and Chutia Nagpur, and the sky less clouded than on the 23rd, except in North Bengal, where it was overcast. Heavy rain was falling in the northern districts of North Bengal Julpigoree registered 6.56 inches, and Buxa 5.33 inches. Light local showers fell in East and South-West Bengal Orissa received a few heavy showers. Bhuddruck (in the Balasore district) registered the largest fall, 3.33 inches. No rain occurred in Behar or

Monday, 25th June. - Pressure had increased over the Province, and was unusually high. It differed from the normal by amounts ranging from '09" at Durbhunga to '19" at Saugor Island. Temperature was slightly above the average. Light winds continued at the head of the Bay. Northerly winds were blowing in North Bengal in the morning. A considerable increase of humidity had again occurred in Behar. Skies were overcast in East and North Bengal and in Behar. Heavy rain fell in North Bengal and the eastern districts of North Behar. Muddapore and Scopool (in North Bhagulpore) registered 10.2 and 5.3 inches respectively, and Arrareah and Kissengunj (in Purneah) 7.04 inches and 5.25 inches

respectively. Elsewhere light to moderate local showers were received.

Tuesday, 26th June.—Pressure began to give way over the Province greatest at the head of the Bay, in the north-west of which an area of barometric depression and of evclouic circulation began to form. Temperature increased slightly in Orissa and South-West Bongal, where the mean temperature of the preceding 24 hours was 3° above the average. Winds were light at the head of the Bay, and were backing through east to north. The air was very humid in North Bengal and Behar. The sky was less clouded, except in North Bengal, where it was overcast. The rainfall was unusually small in amount over Orissa, South-West and East Bengal, in consequence of the indraught to the cyclonic disturbance already established. Heavy general rain fell in the northern districts of North Bengal. Cooch Behar received 5.74 inches, Behar also obtained general rain. The largest amounts were registered in the Purneah and Shahabad districts.

Wednesday, 27th June.—Pressure continued to diminish rapidly. The fall of the barometer was greatest in South-West Bengal. The cyclonic vortex was more distinctly marked and was apparently to the south of Saugor Island and near the andheads. Temperature was normal in Orissa, slightly in excess in Bengal, and from 1° to 3° below the average in Behar and Chutia Nagpur. Winds were everywhere light. In South-West Bengal and Orissa they ranged in direction between north east and north-west, and indicated convergence to the cyclonic disturbance at the head of the Bay. The air was less damp in Behar ence to the cyclonic disturbance at the head of the Bay. The air was less damp in Behar and North Bengal than on the 26th. The sky had clouded over in Orissa and the adjacent districts of South-West Bengal and Chutia Nagpur Elsewhere it was free from cloud.

Light to moderate rain fell in Orissa, South-West Bengal and in East Bengal. A few

light showers were recorded in North Bengal and North Behar, and light general rain in the Sonthal Pergunnahs and Chutia Nagpur. The heaviest falls registered were 2.5 inches

at Agartola and 2.25 inches at Chandbali.

Thursday, 28th June—Pressure had again given way over the whole Province. The fall of the barometer was large everywhere and was greatest in the 24-Pergunnahs and Balasore. These changes intensified the clyclonic vortex, the position of which was un-Pressure was now below the normal by amounts ranging from 05" at Patna to ·25" at Calcutta Temperature varied very slightly from the normal except in Orissa, where it was 210 below the average. The air motion was much stronger than on the 27th, and was mainly dependent on the cyclonic disturbance. In South and South-West Bengal winds ranged between east and north-east. They were north at Balasore, and west south-west at False Point Light easterly winds prevailed in North Bengal, Behar, and Chutia Nagpur. Skies were overcast, and the air very humid in South Bengal and Orissa. The indraught from the north to the vortex had diminished considerably the amount of cloud and the humidity of North Bengal and Behar.

Moderate to heavy general rain fell in Orissa. Moderate rain was received in the whole of South-West Bengal and East Bengal. Light local showers fell at the majority of stations in North Bengal and at a few Behar stations. False Point recorded the large amount of

8.04 inches.

Friday, 29th June -A rapid fall of the barometer in South-West Bengal and Orissa had accompanied a furt'er intensification of the cyclonic vortex, which was in almost the same position as it had been during the previous 48 hours. Pressure had increased by moderately large amounts over the remainder of the Province, and varied from the normal within wide limits ranging from '01" at Durbhunga to '45" at Saugor Island. Temperature had fallen very rapidly. The mean of the previous 24 hours was from 5° to 10° below the average in Orissa, 3½° in South-West and East Bengal, and 1½° in Chutia Nagpur and Behar. Winds were unusually strong. Little change has taken place in the direction of the winds, which continued to indicate convergence to a centre near the Sandheads. The air was almost saturated with moisture in East and South-West Bengal, and in Orissa where skies were overcast. In all other parts of the Province, except the western districts of North Behar, no sky was thickly clouded.

Orissa received excessive rain. Amounts exceeding 5 inches were registered at several stations. Pooree recorded 9.44 inches. South-West Bengal recorded general rain heaviest in the south-western districts. Contair ecorded the largest amount, 3.76 inches. The rainfall was also general in East Bengal, and was excessive in the Chittagong and Noakhally districts. A few light local showers of little importance were recorded in North Bengal and Behar.

> JOHN ELIOT, Meteorological Reporter to the Govt. of Bengal.

METEOROLOGICAL OFFICE, BENGAL, The 3rd July 1883.

VITAL STATISTICS OF THE FIRST CLASS MUNICIPALITIES IN BENGAL FOR THE WEEK ENDING 16TH JUNE 1883.

During the week ending 16th June, the first class Municipalities in Bengal returned the birth and death-rates of 14.7 and 27.3 per 1,000, respectively, from among their population of 1,329,680 against 16.0 and 32.0 per 1,000, respectively, in the preceding week ending 9th June, showing a small decrease in the birth ratio with a large decrease in the death ratio. The highest birth and death-rates were returned by the following Municipalities:—

		Births.			Deaths.		
			Ratio per mille.				Ratio per mille.
Comillah			30.8	Mozufferpore			62.0
Burdwan			29.0	Durbhanga			49.6
Chuprah	"		25.4	Patna		1000	38 9
Durbhanga			23.6	Gya			38.3
				Purneah			34.6
				Comillah			308
270				Bhagulpore			30.8
The second second				Arrah			28.7
				Suburbs of Ca	alcutta		28.3
				Chuprah ·			26.4
				Santipore			25.9
				Serampore			25.5
	- 3			Kishnaghur			25.0
mortality fro	m the	several des	th-can	ses was as follows			

The mortality from the several death-causes was as 10110

				(4.)	weeks	ending
					16th June.	9th June.
Cholera		- 17	 		5.6	7.9
Small-pox			 		.4	7
Fever			 • •		11.7	13.5
Bowel-compla	ints		 		3.1	4.6
Injury			 		.3	.3
Other causes			 		6.2	52

indicating that, in comparison with the preceding week, the severity of cholera, small-pox and fever had on the whole declined considerably.

While small-pox prevailed most severely only in Gya and fever in Purneah, cholera

exhibited its utmost virulence in the following towns :-

				mille.
Mozufferpore		 		 24.3
Durbhanga		 		 20.5
Arrah		 		 11.9
Gya		 	••	 10.9
Chuprah		 		 10·7 7·1
Patna Suburbs of Ca	loutto	 		 5.4
Howrah		 		 3.9
TTOWIGH		 		 J 17

It will be noticed that the area of greatest suffering from the abovenamed diseases this week was the same as that in the preceding week.

The highest and lowest death-rates in relation to Religion and Age are shown below :-

According to Religion.

According to Age.

		- 4	Ratio per mille.	Ratio per mille.
Hindus		Mary Street	28.9	Infants (under 1 year) 196.1
Mahomedans		a 500 man 1000	24.1	Old men (60 years and up-
Christians		1	18.9	wards) 46·1
				Children (1 and under 5
				years) 43.5
All Holdings and a second	2000	(7):	On the last	Adults (of 10 and under 15
				vears) 15·3

F. W. A. DEFABECK, Officiating Sanitary Commissioner for Bengal.

The 2nd July 1883.

22			1 to 67 ery	Ratio of male deaths.	400	600	8	333	No female deaths,	127	101	150		100	No male deaths.	160	No femal deaths.	No female	deaths.	100	87	8	262	96	28	108	112	75	150	100
			RATIO PER 1,000 OF POPULATION PER ANNUM.	Remujes.	6.2	3.1	16.0	12.1		5.4	35.3	18.8	1	6.76	88	90	1 1		8.11	88-9	40.8	41.2	1673	8.89	54.7	8.15	99-9	5-15 5-	31.7	
11			RATIO PER 1,000 OF POPULATION PER ANNUM.	Males.	0.83	18.1	10.8	\$8.4	1.450	11.9	25.1	32-1	1	58.9	1	4.8	34.1	8.9	15.6	22.22	37.0	35.3	9.77	29.3	9.11	31.8	31.8	16.6	86.9	10000
		Sex.	CERCIT STATE	Foundes.	91	1	9	00	Y	11	96	90	1	10	69	1	1 "	•	01	4	64	30	1-	36	36	13	16	21	•	1
10			DEATES	Males.	œ	9	*	10	91	14	7	21	1	10	3	-	60 0		*	+	88	26	17	10	8	11	18	o,	9	10000
			COMPARISON. WITH PREVIOUS PERIODS.	Hatio of deaths per in the correction of popular in the correction of the correction of the present of the previous year, the previous year,				e de la constante de la consta				•			.6	ldali	THAT !	ou u	Dut											
6			COMP WITH I	Hatio of deaths per 1,000 of popula- rion per annum in the previous in the previous	1.16	10.8	1.06	15.55	18-9	16.7	9.66	15'0	******	15.1		nished.	9.46	80.00	25.8	347	454	. 55.0	\$1.1	64.2	75.5	37-1	8.08	16.3	1.11	
	10	7	200	All causes.	15.3	16.8	13.4	52.25	18.9	90 21	28.3	52.0	1	62.6	61 61	0	62 F	4	141	30.8	33.9	38.8	28.7	0.73	9.00	\$.95	59.8	19.0	34.6	0.00
e venile Se de ve	NG T		TION I	Other diseases.	3.1	1	0.1	7.8	1.6	1.2	9.2	2.0	1	I	1	1	7.	, E		12.1	8.1	10.50	8.8	60	9.4	6,	10.0	1.6	-	1
	ACCORDING TO		1,000 OF POPULATION PER ANNUM.	Infury.	1		1	0.5	J.	1	1	I	1	1	1	1	1	1 1		-		1.4	1	1	- 1	,	6.	6.	2.2	
8			ANNUM.	Bowel-complaints.	1	1.2	1.01	5.0	1	10	00 01	1.3		93	:	:	4.2	:	60	-1	8.9	1	1.5	1.9	17	8.9	17	9.50		
	ALITA		E 1,000	Fevers,	91	9.3	2.9	137	4.6	9.9	6.01	8.8	1	0.15	15.5	97	£ 1		2.0	15.4	1579	164	2.5	23.1	9.71	4.9	15.4	10.8	81.3	
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9			Atoas of	Ratio of mule births,	171	168	445	500	No female births.	990	120	20	A	99	i		-	No famala	births.	69	952	7.0	180	n.	150	160	110	100	No male	Dirting.
			1,000 r10N	Total	93.0	15.7	17.5	17.71	5.6	1.0	14.7	8.8		8 01	1	1	1	4.1	11.7	30.8	19.7	19.8	1.91	14.6	23.8	78	19-0	10.8	19.53	
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Office of Sanitary Commissioner for Bengal,

The 2nd July 1883.

Results of the Meteorological Observations taken at the Alipore Observatory from 24th to 30th June 1883.

			· III·	meter	T	BMPBR	ATURB.		. 1	Irenom	BYRT,		Winds			
Month.	Date.	Maximum in sun.	Number of hours of shine.	Mean pressure tarom at 32° Fabr.	Mean.	Maximum.	Range,	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	Weatren,
33.		. 0		In his.	Θ	0	0	0	0	luches	θ	°/e		3	Inches	and the state of the state of
ne	24th	153:0	9	29 634	84.8	90*5	11.3	79.2	80.2	0.869	78.8	81	S and SSW	108	0.02	Cloudy, p.
	25th	163 7	2	-659	62.4	80.0	11.7	78-2	79.8	485	78.8	89	S and SSW	86	0.73	Cloudy, o, g, p, t
	26th	155.9	12	*565	84.9	ก1.7	13 0	78 7	80.2	'968	78:3	82	S and S by W	98	Nil.	Chieffy cloudy.
	27th	150.8	6	453	83-2	9::3	11.6	78.7	79.5	.958	77:9	84	SSW and E	159	0 83	Cloudy, p. d, lr.
	28th	144.4	2	*8.9	81:7	86.7	8.0	77.7	78-2	920	76.7	85	ENE and E	347	0.15	Cloudy, o, g, d,
	29th	102.5	Nil	* *300	79.0	82.6	58	76.8	76.9	1699	76:0	91	E, E by N, and ESE	467	1.24	Cloudy, o, g, d,
6	30th	185.6	,,	*520	80.8	85.3	8.9	76-4	78.0	1920	76.7	87	ESE and SSE	263	0.85	Cloudy o, p, g, d
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The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a that end shed open at the sides, and are suspended four

feet above the ground.

The parometer readings are corrected approximately to those of the standard Newman's No. 86 formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III. IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction of the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, t thunder, p passing temporary showers, lr lightning reflection, strong wind.

JOHN ELIOT,

METEOROLOGICAL OFFICE, INDIA, The 2nd July 1883. For Meteorological Reporter to the Government of India.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 24th to 30th June 1883.

				THMPRR	ATURE.			Нусвом	RTRY.		
Month.		Date.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidits.	Rain.
4 1883.	6-		0	0	0	0	0	Inches.	- 0	%	Inches
une		24th 25th 26th 27th 28th 29th 30th	82°3 84°8 82°3 81°0 77°7	92·8 90·8 92·2 90·1 87·0 84·8 84·3	12 9 11 6 13 2 10 7 9 2 8 0 7 0	79:9 79:2 79:0 79:4 77:8 76:8 77:3	80°3 - 79°6 80°3 80°2 79°0 77°3 78°3	964 976 975 1004 966 932 953	78:1 78:5 78:5 79:4 78:2 77:1 77:8	78 88 81 91 91 98 94	Nil 0.58 1.33 0.41 0.06 1.06 0.68

	0
 	81.9
 ***	16.0
 	92.8
100	%
 	89
	Inches.
 	4.16

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METROROLOGICAL OFFICE, INDIA, The 2nd July 1883. JOHN ELIOT,

For Meteorological Reporter to the Govt. of India.

Errata in the Weekly Report from 29th April to 5th May 1883.

		-28-			F	IYGROMET	RY.			100
			MEAN WE	T BULB.	VAPOUR	TENSION	Dew	POINT.	Ним	IDITY.
-	Монти.	Date.	Erroneous.	Correct.	Erroneous.	Correct.	Erroneous.	Correct.	Erroneous,	Correct.
	Application of the second		0	0	Inches.	Inches.	0	0	Per cent.	Per cent.
(m)		80th	71.9	75.0	0.673	0.802	67.4	72-7	67	78
May		1st	71.8	76'8	*664	876	67.0	75.2	63	83
		2nd	76 6	78.5	*846	921	74.2	76-7	74	82

Also read 80 instead of 75 as the mean relative humidity during those seven days.

JOHN ELIOT,

For Meteorological Reporter to the Govt. of India.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.
IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1883-84.
Areas leased for Irrigation up to the end of April 1883.

Pietrice Caract Richard Pietrice Caract Richard Pietrice Caract Richard Pietrice Pietric								Ammori.			DETA	DETAILS OF AREAS LEASED.	BEAS L	RASED.						-	
Reserve Restriction Color Colo	OTBOLE.	DISTRICT.	1				Approxi- mate area of land under	of land under	Five	Five		A	SNUAL LI	EASES.			(S)	RAINFA 1883-84		AINPALL 1882-83.	
Cottack Richards Cottack Cot						A CAPACITIC STREET	77							ndoi. we				-	p to During		074
Patients Section 1 Secti			8 0	C. ft. 1,269 372-82 1,043	C. ft. 289'50 218'09 27'80	6. ft. 89°65 109°23	Aor. 180	Acr. 746	3	Acr.	Acr.	. oo et		-			Acr. 68	Ţ.	-	-	-
Paiseore				675 1,300	158'50 188'00	1188	3 285	152	11		11	19 88		11		\$ 23	8 8	0.03		501	85
Total of the corresponding	de rig	Paleone	Reseth. Matchgong High Level, Section II.			88 :	16	596			11	1 1				1					
Total of the corresponding Total of the c			High Level, Section III.			-	193	144	•												
State of the corresponding State of the state of the corresponding State of the state of the corresponding State of the sta	The state of		0		-		611	1,638				140			52	165	165			1 3	1 1
Midnapore Midnapore 1,411 67		Fotal of the	e corresponding					-	-	123,823		I	10	1		10	123,828				March 1885.
Howrith	South-	Midnapore	K GO	-	19	-	-	-		53,455		-	1	-	- 1	-	53,455	3.41			88
Total cf the corresponding	Western			555	19		******	-		9,801		1		-		-	108'6	00.3		2	12
Total of the corresponding Period of last year. Potal of the corresponding Period of last year. Period of las		NOT THE REAL PROPERTY.							****	63,236	-						63,256	-			
Similabad Sum 1,226 785 785 2,505 641 11,356 785		Total of the period of last	corresponding year.	1	i	L		L		103,862	1	I	1	1	!		103,862				
Patin and Electern Main \$ 1.466 71 58 \$ 65 9.415 10.918 10.	Some .	Sinhabad		4,342		887	1,286 2,505 10,060	889 641 6,606	3,633	111			2,089 1,375		2.464	2,089 2,089 3,839	4,029	1		FU 43	
18,916 10,144 77,653 11,067 2,529 6,597 55,708 .		4655	Eastern Main Patna	3 1,466		25	.59 }	2,415	10,918				80		13	139		.0.18	-	i dhe	-
44,041 14,647 11,667 11,667 11,667 11,667 11,667 11,667 11,671 14,7471 14,041 227,785 11,672 11,672 228,368 11,672 228,368							13,916	10,144	77,653	1	1000		8,848		9,529	6,397	84,050		1	1	T :
44,011 227,885 11,672 283,388 11,672 283,388 11,672 283,388		Total of the	e corresponding year,		1				44,041		:	-	11,667			11,667	55,708	-1		-	
44,041 247,785 11,672 11,672 283,398			Frand Total		-	-	14,527	11,782	77,653	63,256		140	_	•	2,554		1,47,471				
		Grand Total o	The correspond- last year	1	1		1	I	44,041	297,085		1	11,672		. 355	11,672	983,398				Ţ

The 2nd July 1883.

Under-Secy. to the Gott. of Bengal, in the P. W. Dept.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 23rd June 1883 on 1,509 miles open.

17-11	COACHIN	G TRAFFIC.		AND MINEBAL PPIC.	Other earnings		TOTAL ?	TRAIN-MILE	S RUX.
	Number of passengers.	Cosching receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan- disc.	Total.
tie for the wek le of ratiway fous 24 week of half-	236,361 5,196,888 5,432,949	Rs. A. P. 2,20,910 9 0 146 6 4 58,91,601 0 7 61,12,511 9 7	28,40,208 10	Rs. A. P. 8,92,359 1 3 591 5 9 1,74,95,607 13 10 1,83,87,966 15 1		Rs. A. P. 11,34,813 10 0 752 0 6 2,38,96,263 2 3 2,50,31,076 12 3	64,289 1,593,891§ 1,658,180§	190,0201 3,508,4191 3,498,440	254,809 4,902,311 5,156,620
respinding week ions year or rains goar or rains goar or rains goar or respondent of prious year or handing date of year or handing date of	199,775 4,977,2441	2,08,135 12 6 138 2 2 69,43,204 8 9	21,54,974 0	5,72,087 0 9 379 10 11 1,69,72,778 12 2	32 11 7	8,29,528 8 7 550 8 8 2,44,95,202 11 4	49,7691 1,348,0231	106,364 2,986,926	156,183} 4,834,949}

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 23rd June 1883 on 2064 miles open.

	COACHING	TRAFFIC.	MERCHANDISE TRAF		Other earnings	Total earnings.	TOTAL T	RAIN-MILES	RUN.
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan- dise.	Total.
		Rs. A. P.	MDs. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Live 7	-	
or the week	62,139 301	37,465 0 0 181 3 4	2,31,537 0 1,119 36	44,350 0 0 214 8 2	953 0 0 4 9 9	. 82,768 0 0 400 5 3	8,1082	6,335}	14,439
24 weeks of half-	1,850,759	8,43,129 0 0	71,85,377 0	14,89,310 0 0	14,193 0 0	23,46,632 0 0	167,2921	212,787	380,0294
for 25 weeks	1,412,898	8,80,594 0 0	74,16,914 0	15,33,660 0 0	15,146 0 0	24,29,400 0 0	175,3961	219,072	394,409

The traffic for corresponding period of previous year was not recorded; it was embraced in that for 13 days ending 30th June 1882.

Includes Rs. 299 on account of Revenue stores.

BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

8		in large	72.025	RECEIPTS FOR	WEEK ENDING	TOTAL RECEIPTS	PROM ISTJANUARY	The second secon	Total	Percentage
	Name of	Railway.	Length open.	20th May 1882.	19th May 1883.	To 20th May 1882.	To 19th May 1883,	Total increase in 1883.	decrease in 1883,	increase or decrease,
	Northero	Bengal and astern	Miles. 230 1582 43 271	Rs. A. P. 31,340 0 0 15,553 0 0 2,223 0 0 1,276 0 0	Rs. A. P. 35.582 0.0 18,690 0.0 5,217 0.0 1,637 0.0	Rs. A. P. 7,59,218 0 0 2,76,431 0 0 68,898 0 0 28,327 0 0	Rs. A. P. 9,24,459 0 0 3,19,513 0 0 1,14,144 0 0 33,194 0 0	Rs. A. P. 1,65,241 0 0 43,082 0 0 44,246 0 0 4,867 0 0	Rs.	Rs. +22 +15 +63 +17
		tal	459	50,392 0 0	61,106 0 0	11,53,874 0 0	13,91,310 0 0	2,57,436 0 0		+23

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Weekly Statement of Traffic Receipts.

BECEIPTS F	OR WEEK ENDING	TOTAL RECEIPTS	PROM 181 JANUARY	m		Percentage
2.7 May	26th May 1883.	To 27th May 1882.	To 28th May 1883.	Total increase in 1883.	Total decrease in 1883.	increase or decrease.
Rs. A. P. 8,721 4 7	Rs. A. P. 8,569 14 6	Rs. A. P. 1,89,200 15 0	Rs. A. P. 1,45,268 7 5	Rs. A. P. 4,067 S 5	Rs. A. P.	4:21

e 1883.

GILLANDERS, ARBUTHNOT & Co., Agents.



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JULY 11, 1883.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post,

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DRAINAGE OF THE KRISHNAGHUR MUNICIPALITY.

No. 721T-M, dated Darjeeling, the 29th June 1883.

From-Colman Macaulay, Esq., Secretary to the Government of Bengal,
Municipal Department,
To-The Commissioner of the Presidency Division.

I am directed to acknowledge the receipt of your letter No. 29MM, dated the 14th ultimo, submitting a copy of a letter from the Chairman of the Krishnaghur Municipality, in which he reports that local subscriptions have been promised to an amount of Rs. 15,000 only towards the cost of the scheme for the improvement of the drainage of the municipality by excavating the bed of the Unjona khal. To meet the total cost of carrying out the project, which has been estimated at Rs. 1,15,000, the Municipal Commissioners request that a grant-in-aid of Rs. 50,000 be sanctioned from the Provincial Revenues, and that the balance of Rs. 50,000 be advanced to them as a loan to be repaid in 15 years. You are of opinion that the amount of local subscription promised is not creditable to the public spirit of the inhabitants, and you consider that such an appeal to the liberality of Government is out of place on the part of the Municipal Commissioners and the residents of the town, who have shown so little real desire to carry out a sanitary measure of vital importance to their well-being. You are therefore unable to recommend the proposal.

2. In reply, I am directed to say that the Lieutenant-Governor is unable to accept the proposals of the Krishnaghur Municipality. The contribution which they propose to make towards the cost of the project is altogether insufficient, and is incommensurate with the urgency with which the prosecution of this work was pressed upon the Government by the residents of the town and of

the district on the occasion of the Lieutenant-Governor's last visit to the station. Out of the estimated cost of the work, which appears to be very necessary for the sanitary improvement of the town and its neighbourhood, the Lieutenant-Governor promised to give, as a Government subsidy, half a lakh of rupees if the people were prepared to raise by subscriptions an equal amount, and to contribute the balance of Rs. 15,000 from the municipal resources. Mr. Rivers Thompson is prepared to abide by this promise, but he cannot go beyond it in view of the claims of other places upon Government, and the impossibility of burdening the public resources with any larger charge on behalf of the residents of Nuddea. If they cannot raise the required half lakh of rupees by subscription amongst themselves, the Municipal Commissioners should go into the open market for a loan. This is the course which has been adopted by the municipalities of Burdwan, Bhagulpore, and other places for the introduction of important municipal improvements, and there are no grounds for treating Krishnaghur exceptionally.

No. 29MM, dated Alipore, the 14th May 1883.

From-J. Monro, Esq., Offg. Commissioner of the Presidency Division, To-The Secretary to the Government of Bengal, Municipal Department.

WITH reference to this office letter No. 166Ct. MM, dated the 29th January last, I have the honour to forward herewith copy of a letter No. 394LF, dated the 3rd instant, from the Magistrate of Nuddea, furnishing certain information on the subject of the improvement of the river Unjona.

2. The outcome of the protracted discussion regarding the clearing out of the bed of the Unjona amounts to this, that the amount of local subscriptions promised is Rs. 15,000, that the cost of land will be nil, as that item will be defrayed by the landholders, and that the balance of one lakh is to be contributed by Government in the shape of a free gift of Rs. 50,000 and a loan of half a lakh.

3. This result is to my mind most disappointing in a place like Kishnaghur, which claimed such a prominent place amongst those towns which desired the boon of self-government. On the first occasion on which an opportunity has been afforded to the municipality of showing their public spirit, that body shows an unmistakeable inclination to abstain from all appearance of taxation to carry out a work of primary importance, and virtually makes an appeal ad misericordiam to Government.

4. I have not the names of the subscribers before me, and cannot therefore say how far the people themselves have come forward to earry out a

work which all admit to be of vital importance to their well-being.

5. As regards the land (most of which belongs to the Nuddea Raj), it is questionable whether the Court of Wards has the power so to alienate lands. This point has recently been raised in another case, and it is doubtful whether we can legally make such a grant of land belonging to a ward's estate.

6. With regard to the loan proposed, the municipality say that they can afford to pay it off in 15 years. Nothing is said as to how they propose to defray the interest, or how they intend to create a sinking fund with which to wipe off the principal. It seems rather to be assumed that the loan will be given without interest, otherwise I fail to understand how it is proposed to pay off a loan of Rs. 50,000 bearing ordinary interest in 15 years by instalments of Rs. 4,000 per annum. If it is proposed that Government should give this loan without interest, then this scheme resolves itself into an application to Government for an annual gift of Rs. 2,000, calculating interest at 4 per

7. It is also to be observed that the Municipal Commissioners do not propose to tax themselves in any way to pay for this boon. They merely propose to set aside Rs. 4,000 of their present limited and insufficient income, and curtail expenditure. That they will be able to do this without starving other departments and reducing other branches of their administration to a state of

inefficiency, I very gravely doubt.

8. I cannot recommend Government to assent to the proposal as at present made. It seems to me that such an appeal to the liberality of Government is out of place on the part of those who have shown so little real desire to carry out an important sanitary work, except at other people's expense. I think it would be an extremely liberal offer if Government were to grant a

sum equal to what the people themselves subscribe, leaving them to find the balance by a loan raised in the public market, as has recently been done by the Burdwan Municipality. For this loan the municipality would have to pay, and I see no reason why Krishnaghur should have a scheme intended to benefit the town without payment.

No. 394LF, dated Krishnaghur, the 3rd May 1883.

From-W. V. G. TAYLER, Esq., Magistrate of Nuddea, To-The Commissioner of the Presidency Division.

With reference to your No. 18MM, dated the 21st ultimo, regarding the improvement of the river Unjona, I have the honour to inform you that a sub-committee appointed by the municipality of Krishnaghur for the purpose of raising subscription for the Unjona excavation by their earnest appeal to the inhabitants have got promises to subscribe to the extent of Rs. 15,000. They have not attempted to realize the amount, because, as the carrying out of the scheme, involving as it does the outlay of more than a lakh of rupees, depends entirely upon the assistance which the Government is willing to give, it would be premature to realize the subscriptions unless the scheme be really undertaken. They have, however, every reason to believe that the amounts subscribed will be paid as soon as a favourable reply is received from Government.

favourable reply is received from Government.

2. The lands in the bed of Unjona principally belong to the estate of the Maharaja of Nuddea, and the manager on behalf of the Court of Wards has signified his consent to its appropriation for the purpose of the canal. The owners of the tanks, which are also situated within the bed, are also willing to make a similar concession, so that, if the scheme be undertaken, it is almost certain that no compensation will be claimed by the land-

3. The Municipality of Krishnaghur will be able, by curtailing their expenses on other heads to contribute annually the sum of Rs. 4,000 in order to liquidate a debt of Rs. 50,000, provided this amount be advanced as a loan by the local Government. This loan they propose to pay off in 15 years.

loan they propose to pay off in 15 years.

4. There will be still a deficiency of about Rs. 50,000 if the excavation be undertaken in the manner recommended by the Superintending Engineer. The Municipal Commissioners are unable to see their way towards raising such a large sum. They therefore pray that the amount may be given by the Government as a free gift for the purpose.

5. The Municipal Commissioners hope that the Commissioner of the Presidency Division will be pleased to lay these facts before His Honor the Lieutenant-Governor of Bengal, and to recommend that Rs. 50,000 be advanced as a loan, and Rs. 50,000 be granted from the provincial funds for the improvement which the Municipal Commissioners believe will add materially to the health and cleanliness of the town.

ANNUAL REPORT ON THE ADMINISTRATION OF CIVIL JUSTICE IN THE SONTHAL PERGUNNAHS FOR 1882.

RESOLUTION.

Darjeeling, the 30th June 1883.

READ

The Annual Report on the Administration of Civil Justice in the Sonthal Pergunnahs for 1882.

Read also-

The Reports for 1880 and 1881, and the orders of Government recorded thereon.

The following statement shews the progress of litigation in the Sonthal Pergunnahs during the past three years:—

and application of the second	1	NSTITUTEL		DISPOSED OF.			PENDING.		
	1880.	1881.	1892.	1880.	1881.	1882.	1680.	1881.	1982.
Suits for money or moveable preperty Rent suits	10,994	7,086 4,307 590	7,350 4,545 478	6,027 4,486	7,367 4,428 672	7,332 4,602 499	921 795	617 467 156	635 376 170
Property	5,403	4,070 2,753 200	4,448 3,352 139	3,077 2,334	3,695 2,603 201	4,633 3,125 145	537 306	904 434 29	719 515 40
Total	16,397	19,015	20,312	15,924	18,966	20,336	2,559	2,607	2,461

Owing to the change in the form of the returns introduced in 1880, a regular comparison of the results of three consecutive years cannot be made until the receipt of the report for the current year. Nor can the results even then be strictly accurate, as it was only in September last that, under the orders of Government, final instructions were issued regarding the adoption of a uniform system of classification of revenue and title suits.

2. As compared with the preceding year, the number of suits for money or moveable property was 7,350 as against 7,086. The principal increase was in suits on bonds. The increase is attributed to the break in the rainfall in July and the two following months, to the anxiety of the people in consequence, and the inferiority of the rice crop which resulted from the break. The number of rent-suits instituted during 1882 was 4,545 as compared with 4,307 in the preceding year. The number of suits for arrears of rent in the Pakour sub-division increased from 46 in 1881 to 162 during 1882. The increase was due, it is said, to the Pakour zemindar, who is the owner of half the sub-division, having "gradually accepted and acted on the settlements with his tenants

from whom he had hitherto kept aloof."

3. The Commissioner observes that the majority of the suits appearing hitherto under the head of rent-suits were really jot suits, that is suits in which the "tenants, for the time virtually proprietors, contended among themselves for possession of disputed plots." An interesting extract is given from the report of Mr. Oldham, the Deputy Commissioner, in which he explains the remedy which has been found for the sale of tenancy and ryoti rights which had sprung up as an effect of the settlement operations. Mr. Oldham points out that, under the action of the courts under Regulation III of 1872, the cultivators, when they required a loan, were able to mortgage their holdings at fair rates, when it seemed advantageous to sell them outright. The effects are thus described by Mr. Oldham :- "The first results with the unquestioned rise in credit seemed favourable enough; but a very short interval sufficed to show that, where the borrowers were all Sonthals or members of the other primitive races, and the lenders were all keen-witted Bengalis and Beharis, and land was the security, that security was fast passing from the hands of its original clearers and cultivators into those of the creditors; while in most instances the original tenant was left as a labourer on the soil of which he had been, for a short period, and by the operation of an unexpected and fatal gift, the proprietor. And the last, and perhaps worst, feature of this change has been seen in those cases where it broke up altogether the old community, and where the village headman and his assessors have been deprived of power because of the intrusion of some foreigner, who has become master of large portions of the village land, and in whose debt they themselves deeply lie." Mr. Oldham then points to the contrast between the state of affairs where, in consequence of these transactions, there had been the "attending disruption of the communities, the loss of the village chief's position and the degraded status of the tribesmen," and the state of affairs in the Government estate—"regarded as the model zemindari of the district-where the integrity of the communes and the position of the tenantry have been maintained by prohibiting any transfers of land whatsoever, and by the exclusion of the Bengali and Behari land-speculating class." Every attempt has now been made, and with satisfactory results, to supervise closely all cases in which it is sought to favour the irresponsible treatment of his holding by a mere cultivator, and it is now sought to enlist, or at least to allow an opportunity for, the interference of the rent receiver or the landlord. Another important change has been effected in the execution of decrees, it being now held that the "zemindar," to whom notice of the attachment of the land in execution must be given, is not necessarily the proprietor who pays the Government revenue, but the "rent-receiver," and when the latter objects, the parties are required "to establish or contest the right to sell by separate suit." Sub letting has also, it is said, been rendered ineffective by the courts refusing to allow the recovery of rent at a higher rate than that fixed by the settlement. In order also to define the position of the village headman, who could not be prosecuted criminally for embezzling collections, and who appeared to be able to alienate his nij-jote, it was ruled during the past year that "as the existence of substantial nij-jote is the landlord's sole security for payment by the headman, no encumbrance of it since the settlements, or short of a Southal occupancy right (section 18, Regulation III of 1872) will prevail against the landlord, should the latter have to sell it for arrears, and the Deputy Commissioner will be ready to dismiss as inefficient any headman whose nij-jote had so been sold." These changes will, it is hoped, prove beneficial. Their effects on the suits during the current year should be carefully noted and recorded in the report which will be submitted after its The results, though the natural results of a power suddenly placed in

the hands of an ignorant people, are scarcely conducive to the objects of a settlement which contemplated the establishment of a strong peasant proprietory; and if the measures adopted by the local authorities do not tend to check the evil, it would be for consideration whether the rules in force in the Government estate against the right of transfer should not be generally enforced. It is impossible, at least, to deal with Sonthals as with more advanced communities.

4. The number of cases disposed of during the year was 20,336 as compared with 18,966 during the preceding year, and 15,924 during 1880, the number of cases pending at the close of the year being 2,461 as compared with 2,607 pending at the close of 1881, and 2,559 at the close of 1880. The increase in the amount of work done, and the decrease in the amount of arrears,

is satisfactory.

5. The total number of appeals from decrees of civil courts for disposal during the year was 778 as compared with 634 in the preceding year. Of these 125 were rejected and 16 were dismissed in default, or were not prosecuted. Of the remaining 637, the original decisions were confirmed in 259, modified in 12 and reversed in 80; 242 cases were remanded and 44 were pending at the close of the year. To the Commissioner's court 57 appeals, including 3 revenue appeals, were presented; of these 6 were rejected, in 15 cases the original orders were upheld, in 7 reversed, and the

remaining 29 were pending at the close of the year.

6. The Deputy Commissioner refers to the small receipts in the civil courts in proportion to the number of suits instituted in the Sonthal Pergunnahs, as compared with other parts of Bengal, and thinks that, though some obvious reasons exist, which in part account for the difference, it must be conceded that the courts do not receive their full dues owing to the absence of pleaders. He adds-" The scrutiny of valuation is left to the courts alone, and, however great their vigilance, it cannot be so great as that resulting from the rivalry of professional law agents." He also remarks that a great cause of difference in the receipts is the process system in force in the Sonthal Pergunnahs, and the procedure under which parties can serve their own processes free of cost. The question does not appear to the Lieutenant-Governor to be of much importance where there are the countervailing advantages secured by the special procedure and rules adopted in a backward tract of country like the Sonthal Pergunnahs. At the same time, though the scrutiny by the courts cannot, on account of the pressure of business, be as complete and accurate as that of legal practitioners, ready and anxious to find a flaw in the case of the opponents, still much might, the Lieutenant-Governor considers, be done with care and attention, and the Commissioner should impress on all officers in the Pergunnahs the necessity for a closer examination It would do much to make this scrutiny effective if the Deputy Commissioner would himself examine some of the records from time to time to assure himself that the interests of the stamp revenue are not neglected.

7. The Lieutenant-Governor has much pleasure in again recording his appreciation of the manner in which Mr. Oldham performed his duties during the year, and regrets his unavoidable departure from a district of the conditions and circumstances of which he had gained an intimate knowledge. He also notices with satisfaction the favourable remarks on the conduct of the officers subordinate to the Deputy Commissioner. A copy of the remarks regarding the officers mentioned will be forwarded to the Appointment Department of this

office.

ORDER-Ordered that a copy of this Resolution be forwarded to the

Commissioner of Bhagulpore for information and guidance.

Ordered also that a copy of paragraph 7 of this Resolution, and of paragraphs 25 and 26 of the Report, be forwarded to the Appointment Department of this Office for information.

By order of the Lieutenant-Governor of Bengal,

F. B. PEACOCK,

FINANCIAL DEPARTMENT-FINANCE.

Darjeeling, the 3rd July 1883.

RESOLUTION.

The Lieutenant-Governor has already, in separate Resolutions, passed orders upon the estimates under the various heads of Provincial Services for 1883-84, and upon the estimates of such funds as are incorporated in the General Imperial Accounts. After these orders were issued, the Government of India, in its Financial Statement for 1883-84, prescribed certain modifications in the form of the estimates which it is incumbent upon the Local Government to follow. It is not necessary to explain at length the various changes made in the classification of the heads of receipts and charges, but opportunity will be taken to recast the revised estimates for 1882-83, and the estimates for 1883-84, in the form prescribed. It will not be convenient to follow the new classification in the accounts of the year 1881-82, nor is it desirable to disturb those accounts, as 1881-82 was the last year of the period for which the financial contract of 1877 had been made, and its accounts have already been closed.

ACCOUNTS FOR 1881-82.

2. The Accountant-General's final report on the accounts of 1881-82 has not yet been submitted. The preliminary issue shews the following results compared with the estimates for the year:—

	Estimate, 1881-82.	Regular estimate, 1881-82.	Actuals, 1881-82.
	Rs.	Rs.	Rs.
Provincial-		- 10 Table 1	and the second
Opening balance	49,01,000	49,91,000	49,91,000
REVENUE-			
Proper	3,68,28,000	3,73,03,000	3,76,22,000
Allotment from Imperial to Pro-		01101001000	31. 31. 31.
vincial	99 10 000	83,84,000	83,69,000
Contributions from Local to Pro-			
vincial	2,000	2,000	1,39,000
Inter-provincial adjustments			
Total	4,06,46,000	4,56,89,000	4,61,30,000
GRAND TOTAL	4,55,41,000	5,06,80,000	5,11,21,000
Expenditure—	12 4 -14 - 14 V		
Civil	2,67,41,000	2,61,19,000	2,62,93,000
White the state of the property of the state of	The state of the s		-
Public Works-			
Interest	37,69,000	*33,71,000	33,61,000
Railways	26,40,000	32,16,000	30,34,000
Irrigation and Navigation	40,00,000	37,61,000	36,60,000
Other Public Works	67,50,000	66,31,000	66,87,000
Total	1,71,59,000	1,69,79,000	1,67,42,000
Contribution to Local Funds	1,95,000	3,33,000	3,66,000
Closing balance	14,46,000	72,49,000	77,20,000
GRAND TOTAL	4,55,41,000	5,06,80,000	5,11,21,000

^{3.} In the Resolution of the 18th April 1882, it was shewn that the year 1881-82 had actually opened with a credit balance of Rs. 49,91,000; that the revenues under all heads might, during the year, amount to Rs. 3,73,03,000; that the Imperial allotments, including the special grant

of Rs. 28,50,000 made in pursuance of the new contract, and the restoration of Rs. 20,00,000, which had been contributed to the Imperial Treasury in the previous two years, would be Rs. 83,84,000; that the total expenditure during the year would probably not exceed Rs. 4,34,31,000, leaving a credit balance at the close of the year of Rs. 72,49,000. The actual result has been more favourable than this estimate by Rs. 4,71,000. The expenditure of the Public Works Department fell short of the estimate by Rs. 2,37,000; a sum of Rs. 1,39,000, representing the balance of the Estates Improvement Fund, has been added to the Provincial Services balance; and the receipts of the Public Works Department increased by Rs. 3,09,000. Against this there was a decrease of Rs. 15,000 under Imperial allotment; the sum of Rs. 2,000, estimated for contribution from local funds for the services of executive officers of the Public Works Department for supervising district works, has not been realized; the grants to Local Funds have increased by Rs. 33,000; and the operations of the Civil Department shewed a net result worse by Rs. 1,64,000, as exhibited in the following table:—

	115				1		Better.	Worse.
				8			Rs.	Rs.
Excise							*****	1,29,000
Customs	***	***	***		***	***	15,000	
Salt	***	***	***			***		9,000
Opium			***		***	***	******	13,000
Stamps	144	***	11.1		***	***	34,000	1 100000
Registration		***	***			***	******	2,000
Minor Depart	ments				***	***		20,000
Law and Just	ice							1,33,000
Police					***	***	42,000	******
Marine						***	24,000	
Education	***	***						56,000
Medical	ADC .				***	***	17,000	10000000
Stationery and	Printing						57,000	******
Interest on Pr	omissory	Notes	area Parlament		***	***	1,000	******
Miscellaneous	omissory .	Liouos			***	- ***	75,000	
Public Works		Magra	***		***	***	12,000	
Refunds			***		***	•••		00.000
Land Revenue	***		***		***	•••	******	39,000
		***	***		***	***	1.000	5,000
Assessed Taxe		***	4.1.1		***	***	4,000	******
Administratio	n		•••		***	***	14,000	
Salara Constant					Total		- mile	1,64,000

4. The accounts furnished by the Accountant-General shew that the Provincial balance on the 31st March 1882 was Rs. 75,43,000, which was less than that shewn above by Rs. 1,77,000. This amount represents the debit of Rs. 1,77,000 on account of Census operations. The Government of India, in the Home Department, has, however, in letter No. 34, dated 4th May 1883, accepted this charge as Imperial. The Provincial balance was therefore Rs. 77,20,000.

REVISED ESTIMATE, 1882-83.

5. Hitherto the estimates of the year about to expire, which are presented at the time of the preparation of the budget for next ensuing year, have been termed the "Regular" estimates. The term is a technical one, and its meaning may not be clear to all. The Government of India sees no reason for the continuance of the word, when another word, which any one can understand, is available, and has directed that the word "Revised" shall be used instead of "Regular."

6. The financial year, which has just expired, was the first year of an important advance in the policy of decentralization. A new contract has been entered into, under which the interest of the Provincial Government has been extended to Land Revenue, Forests, and Assessed Taxes—heads of revenue hitherto reserved as Imperial. A consideration of the revised estimates for 1882-83 will shew approximately what has been the position of the province in the first year of the contract.

A revised estimate, based on the actuals of eight months, and in some instances of ten months, was submitted to the Government of India with letter No. 539, dated the 17th February 1883. Later information has induced the Lieutenant-Governor to modify these estimates to a certain extent.

7. The following statement shews the estimates for the year 1892-83 as originally framed, the revised estimates as submitted to the Government of India, and the estimates as now modified:—

RECEIPTS.	Original estimate, 1882-83.	Revised estimate, 1882-83.	Revised estimate, 1882-83, as now modified.	EXPENDITURE.	Original estimate, 1882-83.	Revised estimate, 1882-83.	Revised estimate, 1882-83, as now modified.
	Rs.	Rs.	Rs.	C. S. C. Company	Rs.	Rs.	Rs.
Opening balance	72,49,000	77,20,000	77,20,000	5.—Refunds and Drawbacks	6,22,000 30,84,000	1,27,000 20,73,000	1,27,000
I.—Land Revenue 11I.—Salt IV.—Stamps V.—Excise VI.—Provincial rates VII.—Castoms VII.—Assessed Taxes IX.—Vorest	1,24,98,000 1,39,000 60,00,000 50,55,000 35,78,000 85,000 8,60,000 3,50,000	1,25,99,000 1,64,000 62,00,000 48,75,000 36,03,000 78,000 7,88,000 3,67,000	1,29,58,000 1,64,000 61,07,000 48,94,000 36,63,000 73,000 7,60,000 8,60,000	0.— Land Revenue	20,000 2,25,000 1,35,000 5,69,000 50,000 2,20,000 3,16,000	18,000 2,12,000 1,38,000 5,80,000 50,000 2,30,000 3,17,000	18,000 2,12,000 1,34,000 5,57,000 48,000 2,00,000 3,15,000
X,—Registration XY.—Law and Justice XVI.—Police XVII.—Marine XVIII.—Education XIX.—Medical XX.—Scientific and other	5,06,000 17,10,000 5,46,000 8,23,000 5,14,000 1,42,000	5,17,000 16,49,000 5,20,000 9,01,000 5,60,000 1,42,000	5,20,600 16,25,000 4,86,000 9,51,000 5,22,000 1,34,000	18.—General Administration 19.—Law and Justice 20.—Police 21.—Marine 22.—Rducation 24.—Medical 26.—Scientific and other Minor	11,68,000 93,60,000 46,81,000 8,2×,090 29,60,000 14,26,000	14,78,000 93,20,000 45,44,000 8,66,000 29,40,000 13,73,000	15,07,000 92,65,000 45,44,000 80,11,000 10,85,000
Minor Departments XXI.—Interest XXII.—Sue annuation XXIII.—Stationery and Printing XXIV.—Miscellaneous	1,91,000 21,000 71,000 3,12,000 6,43,000	1,76,000 41,000 74,000 1,35,000 6,88,000	1,65,000 41,000 74,000 1,47,000 6,88,000	Departments	3,06,000 10,28,000 10,04,000 2,02,000 35,70,000	3,29,000 11,55,000 9,35,000 6,44,000	3,40,000 11.8+,000 9,65,000 6,54,000
XXVState Railway (gross earnings) XXVIII.—Irrigation and Naviga-	36,20,000	35,29,000	35,28,000	asyenses) 39.—Irrigation and Navigation (working expenses)	36,72,000	10,72,000	19,66,00
XXXI.—State Railways XXXIII.—Irrigation and Naviga-	18,20,000	12,00,000	13,00,000 1,49,000	41.—Interest on debt— Railways Irrigation	35,62,000	14,20,000 21,35,000	14,14,00
XXXV.—Civil buildings, roads and services	7.02,000	7,02,000	7,02,000	42.—State Railways (capital account) 43.—State Railways (working, &c.)		17.5 t,000 1,25,000	
	3,99,96,000	4,03,68,000	4,05,67,000	44.—Subsidzed Railways 46.—Irrigation and Navigation 48.—Civil buildings, roads, &c	57,99,000	24,00,000 60,74,000	
Contribution from Local to Pro-	1.60.000			Contributions	4,5i,06,000 14,88,000	4,51,46,000 2,75,000	4,54,03,00 2,58,00
vincial	1,60,000	******		Closing balance	4,65,92,000 8,13,000	4,54,21,000 26,67,000	
Total	4,01,56,000	4,03,68,000	4,05,67,000	GRAND TOTAL	4,74,05,000	4,80,88,000	4,82,87,00
GRAND TOTAL	4,74,05,000	4,80,88,000	4,82,87,000	Provincial surplus (+) Deficit (—)	-64,36,000	50,53,000	51,24,00

RECEIPTS.

8. Land Revenue.—The amount of percentage of Land Revenue assigned to Bengal under the new contract was originally fixed at 32.2284. In consequence of the re-transfer of the S. S. Undaunted from the Imperial to the Provincial Marine, and of the cemetery charges having again been made provincial, the Government of India at first added '1742 and '0214, respectively, to the percentage already assigned. It has since, however, been ruled that the original percentage of Land Revenue shall not be changed during the currency of the Provincial contract, and that effect shall be given to all transactions which would otherwise necessitate an alteration of the proportion by transfer of lump sums in reduction of, or in addition to, the amounts determined by the fixed proportion under the head of Land Revenue, from or to Imperial to or from Provincial. The amounts, therefore, which under this ruling have been added to the share of Bengal on account of the *Undaunted* and "Cemetery charges" are Rs. 65,000 and Rs. 8,000, respectively. The latest return from the Comptroller-General shews that the total Land Revenue of the Province may have amounted to Rs. 3,83,75,000, and a percentage of 32 2284 on this sum amounts to Rs. 1,23,67,000. The 10 per cent. on collections from Government estates, which is to be appropriated to the management and improvement of these estates, will probably have amounted to Rs. 3,78,000. The receipts from the duty on Shajehanpore rum realized in the North-Western Provinces, and other inter-provincial transactions adjusted through the clearing account of the Comptroller-General, may have realized in favour of this Government a sum of Rs. 1,10,000. The Provincial receipts under Land Revenue will then be-

Mare calculated at the percentage (32-2284)	46.17	Lister in	7 500 100 50	1,23,67,000
On account of S. S. Undaunted	100		1 4 5	65,000
Ditto of cemetry charges	144.5	***	1875	8,000
Ten per cent. collections from Government estates Inter-provincial adjustments		***		3.78.000
inter-provincial adjustments	- 44	-	***	1,10,000
		Total	***	1,29,28,000

From this, however, must be deducted the amount of net savings effected in the Customs Department owing to the abolition of the bulk of the import duties. The savings in the cost of establishment during the year 1882-83 may have amounted to Rs. 1,50,000, but the additional charge for pensions, gratuities, and bonuses thrown on the Provincial Government on account of the retirement of the Customs officers may probably have amounted to about one lakh. A part of this would have, in any case, ultimately fallen on the Provincial revenues. A large portion, however, is an extraordinary charge which does not form an ordinary incident of the liability for superannuations. A representation on this subject will be made to the Government of India as soon as full information is available. Meanwhile the reduction on account of Customs establishment will be taken at Rs 70,000, and the revised estimate of the Provincial share of Land Revenue will be placed at Rs. 1,28,58,000.

9. Salt.—The Provincial receipts under this head consist only of "Rents of warehouses," "Fines and Forfeitures," and "Miscellaneous fees, &c." These receipts were originally estimated at Rs. 1,39,000. Larger receipts were realized from the Sulkea Golahs than were at first anticipated, and the

revised estimate stands at Rs. 1,64,000.

10. Stamps.—The original estimate of total stamp receipts for 1882-83 was Rs. 1,20,00,000, the same as the revised estimate for the preceding year. The actuals of 1881-82 were Rs. 1,20,24,000, and the revised estimate was, on later information, placed at Rs. 1,24,00,000. The latest returns tend to shew that the actuals may not have amounted to more than Rs. 1,22,13,000. Half of this belongs to Bengal, and the estimate as now modified stands at Rs. 61,07,000.

11. Excise - The Lieutenant-Governor originally fixed the estimate for 1882-83, exclusive of duty on Shahjehanpore rum, at Rs. 1,00,00,000. From the indications afforded by the district returns during the year, it was anticipated that the revenue would not amount to more than Rs. 97,50,000. The actuals, however, were probably not less than Rs. 97,89,000, and half of this amount, or Rs. 48,94,000, will stand as the revised estimate for 1882-83.

12. Provincial Rates.—The Provincial portion of the estimate under this

head includes-

The proceeds of the Public Works Cess.
 Rates for the management of Wards' and Attached Estates.

(3) Four annas rate per cent. on Wards' estates for treasury establish-

The increase of Rs. 25,000 in the revised estimate, compared with the original estimate for 1882-83, is due to larger receipts from Public Works Cess in consequence of the revaluations in certain districts having been completed. The revised estimate stands at Rs. 36,03,000.

13. Customs.—The only Provincial items under this head are "Warehouse and wharf rents," "Fees for regis ration of cargo-boats in Chittagong," and certain other "Miscellaneous items." The receipts in 1881-82 were Rs. 86,000, and the original estimate for 1882-83 was placed at Rs. 85,000. The receipts may not have reached this estimate. The wharf rents have decreased owing to the abolition of the import duties. The revised estimate stands at Rs. 73,000.

14. Assessed Taxes. The Accountant-General, in submitting the budget for 1883-84, estimated that the total receipts by the end of 1882-83 might amount to Rs 16,00,000. The estimate was considered too sanguine, and it was reduced to Rs. 15,75,000. The latest returns tend to show that the totals will probably not have exceeded Rs. 15,20,000. The Provincial share will

stand at Rs. 7,60,000.

Forest .- The receipts for 1882-83 were originally estimated at Rs. 7,00,000. An increase in revenue was anticipated from larger sales of timber and other produce to consumers in the Sunderbuns, and in consequence of the commencement of forest operations in the Angul and Khoordah forests in Orissa. The revised estimate was placed at Rs. 7,34,000. The Government of India has reduced the estimate to Rs. 7,20,000, which has been accepted by the Lieutenant-Governor.

16. Registration .- The original estimate of revenue under this head, including revenue record-room receipts, was Rs. 10,11,000. There has been a tendency of the receipts to expand, and the estimate was raised to Rs. 10,34,000 in the Resolution of the 17th January 1883. The receipts will probably have amounted to Rs. 10,40,000 by the end of the year. The Provincial share will

stand at Rs. 5,20,000.

17. Law and Justice. - The original estimate was Rs. 17,10,000, of which Rs. 9,06,000 appeared under the head of Law and Justice (Proper), and 8,04,000 under Jails. There has been a considerable falling off in the receipts from "General fees, fines, and forfeitures;" and there has also been a decrease under "Court-fees realized in cash," owing to the more extended use of courtfees stamps. The total receipts under Law and Justice (Proper) may not have amounted to more than Rs. 8,25,000. The revised estimate of total receipts under Law and Justice is Rs. 16,25,000.

18. Police.—The estimate, as now modified, amounts to Rs. 4,86,000, against Rs. 5,46,000 originally estimated. The decrease is specially under

" Fees, fines, and forfeitures."

19. Marine. - The estimate under this head was raised from Rs. 8,23,000 to Rs. 9,01,000. There has been a considerable increase in pilotage receipts, and the estimate will be further raised to Rs. 9,51,000.

20. Education.—The latest figures shew that the estimate under this

head should be fixed at Rs. 5,22,000.

21. Medical.—The estimate, as now modified, shews a decrease of Rs. 8,000 compared with the original estimate. There has been a falling off in "Hospital receipts;" and the "Proceeds of cinchona febrifuge sold by Civil Surgeons," which were formerly included under this head, have now been transferred to

the cinchona account under the next following head.

Scientific and other Minor Departments .- The actual receipts under this head in 1881-82 were Rs. 1,97,000, and the original estimate for 1882-83 was placed at Rs. 1,91,000, of which Rs. 1,75,000 was estimated from cinchona febrifuge. The demand for this drug from the medical departments has diminished. The Government of Madras receives preparations made in England from bark sent from its own plantations, and the Bombay and Calcutta depôts are overstocked with preparations sent out from England. It is anticipated that the receipts from this source will not have exceeded Rs. 1,50,000. The total receipts will then stand at Rs. 1,65,000.

Interest. - The Provincial receipts consist of the proceeds of the invested capital of the Education Department, and the interest on arrears of Public Works cess realized under the provisions of section 45 of the Cess Act IX of 1880. The interest on the Government securities held by the Education Department averages about Rs. 16,000 a year, and that on account of Public Works cess was originally estimated at Rs. 5,000, but may have come up to

Rs. 25,000. The total receipts will stand at Rs. 41,000.

24. Superannuation.—This is one of the budget heads made Provincial in the new Financial Contract. The increase of Rs. 3,000 in the revised estimate is due to the subscriptions of the members of the Civil Service who have arrived in India since 1881-82, and who are not allowed to subscribe to the Civil

25. Stationery and Printing .- The revised estimate will be increased from Rs. 1,35,000 to Rs. 1,47,000, with reference to the latest figures received

from the Accountant-General.

26. Miscellaneous.—In the new Financial Contract all receipts recorded under this head, except "Gain by exchange on Imperial transactions," "Premia on bills," "Unclaimed bills-of-exchange," and extraordinary unclassified items exceeding Rs. 10,000, were made Provincial. The total receipts were originally estimated at Rs. 6,43,000. The receipts will probably have amounted to Pa. 6,88,000, as shown in the revised estimate. This form will to Rs. 6,88,000, as shewn in the revised estimate. This figure will accordingly stand.

27. State Railways (XXV) .- The gross earnings of State Railways, which have been classed as Productive Public Works, are shewn under this head. The Government of India has reduced the revised estimate from Rs. 35,29,000 to Rs. 35,28,000. The estimate of the Government of India will stand.

Irrigation and Navigation (direct receipts-XXVII).-The revised estimate of Rs. 12,00,000 under this head has been accepted by the Government of India. Later information shews that the estimate may be raised to

Rs. 13,00,000.

29. State Railways (XXXI).—The receipts from railways not classed as Productive Public Works are shewn under this head. At present the Sonarpore-Diamond Harbour branch of the Calcutta and South-Eastern Railway and the Kawnia-Dhurla Railway are included under this category. The Government of India has accepted the revised estimate of Rs. 1,49,000 under this head.

30. Irrigation and Navigation (XXXIII).—The receipts from rivers and canals not classed as Productive Public Works are included under this head The revised estimate of Rs. 7,02,000 under this head has been accepted by the

Government of India.

31. Civil Buildings, Roads, and Services.—The estimate of Rs. 7,02,000 under this head has been raised to Rs. 7,16,000. The revised estimate has been

accepted by the Government of India.

32. Contribution .- The amount shewn under this head in the original estimate represented the accumulated balance of the Estates Improvement Fund, which was to be amalgamated with the Provincial Services. The actual balance amounted to Rs. 1,39,000, and has been incorporated in the Provincial Account of 1881-82.

EXPENDITURE.

33. Refund and Drawbacks.—The original estimate under this head was Rs. 6,22,000; but in accordance with the new classification, only the refunds under the revenue heads are to be entered here, the refunds of receipts by the Civil Department being incorporated with the service heads of expenditure.

The revised estimate under this head stands at Rs. 1,27,000.

34. Land Revenue.—Under the new scheme the Imperial Government has only retained under this head the same percentage on the cost of surveys and settlements as has been retained of land revenue, the rest being made Provincial. In the Resolution of the 18th April 1882, the grant under this head for 1882-83 was fixed at Rs. 30,84,000. The charges for the management of Government estates were estimated at Rs. 2,50,000 These charges may have exceeded the estimate by Rs. 50,000. The Lieutenant-Governor would raise the estimate to Rs. 31,00,000.

Salt .- The original estimate under this head has been reduced by

Rs. 2,000 in the revised estimate.

Stamps.—The revised estimate shews a decrease of Rs. 13,000 compared with the original estimate. The greater part of the decrease occurs under "Stamp paper supplied from central stores."

37. Excise.—The estimate, as now modified, is less than the original estimate by Rs. 1,000 only.

38. Provincial Rates.—This head in the Provincial estimate is blank, as the charges for the collection of Public Works cess, for which a sum of Rs. 46,800 is annually paid to the District Road Committees, are adjusted under

the head "Contribution to Local Funds." 39. Customs.—The original estimate of this Government was Rs. 7,05,000. The Government of India, in consideration of the anticipated reductions in the Customs establishment owing to the abolition of the import duties, reduced the estimate to Rs. 5,69,000, and this figure was adopted in the Resolution of the 18th April 1882. The Accountant-General's last return tends to shew that the entire expenditure will have amounted to Rs. 5,57,000, and this amount will stand as the revised estimate for 1882-83.

40. Assessed Taxes.—The entire cost of collection will probably not have exceeded Rs. 96,000. Half this amount, or Rs. 48,000, will stand as

the revised estimate for 1882-83.

41. Forest.—The revised estimate under this head, as passed by the Government of India, is Rs. 4,00,000. The Provincial share amounts to Rs. 2,00,000.

Registration .- The original estimate of Provincial expenditure has

been reduced by Rs. 1,000.

43. General Administration.—The revised estimate, as now modified, shews an increase of Rs. 39,000 over the original estimate of Rs. 14,68,000. There is an increase of Rs. 19,000 under Tour expenses, Rs. 11,000 in Board's office, and Rs. 8,000 under Civil Secretariat. There is also an increase under "Staff and household of the Lieutenant-Governor," a part of which is due to

the higher rate of pay of the present Private Secretary, which was sanctioned in letter from the Government of India, Finance and Commerce Department,

No. 2872, dated the 27th March 1882.

44. Law and Justice.—The grant under this head, excluding "Refunds," was estimated by the Government of India at Rs. 93,69,000. The expenditure on jail manufactures, for which Rs. 9,00,000 was provided in the budget, will not have exceeded Rs. 6,50,000. The refunds amount to about Rs. 1,40,000. The revised estimate may be placed at Rs. 92,65,000.

45. Police—The original estimate under this head was Rs. 45,81,000. The revised estimate inclusive of "Refunds," amounting to Rs. 15,000, stands

at Rs. 45,44,000.

46. Marine.—The original estimate amounted to Rs. 8,28,000, and the revised estimate, including "Refunds," to Rs. 8,66,000. There has been a large expenditure on account of building and repair of ships and under "Pilot-

age establishments." The estimate will be raised to Rs. 9,09,000.

47. Education.—The increase in the estimate, as now passed, compared with the original budget provision, is due partly to the debit under this head of the boarding charges of the students of the Civil Engineering College at Howrah, which were formerly included in the budget of the Public Works Department, and partly to larger expenditure under "Direction" and "Inspection."

48. Medical.—The "Medical Establishment (Proper)" has been made Provincial from the commencement of the year 1882-83. The total expenditure was estimated at Rs. 14,26,000. When the revised estimate was submitted to the Government of India, it was anticipated that the entire expenditure would not be more than Rs. 13,73,000. The expenditure under "Hospital and dispensaries" and "Grants for medical purposes" has, however, been smaller than was anticipated. The estimate, as now modified, stands at Rs. 13,55,000.

49. Scientific and other Minor Departments.—The actual expenditure in 1881-82 was Rs. 3,26,000, and the revised estimate for 1882-83 was placed at Rs. 3,29,000, against Rs. 3,06,000, the grant originally provided under this head. No provision was made in the original estimate for the completion of the census operations, the expenditure on which is reported to have amounted to Rs. 26,000. There has been larger expenditure under "Botanical Gardens" and "Exhibitions and Fairs," against savings in the cinchona allotment. The estimate has been raised to Rs. 3,40,000.

50. Superannuation.—As stated above, this is one of the budget heads made Provincial in the new Financial Contract. The charges were originally estimated at Rs. 10,28,000, and will probably have amounted to Rs. 11,80,000. The increase is for the most part due to the premature retirement of Customs

officers under the reduction scheme.

51. Stationery and Printing.—The original grant under this head was Rs. 10,04,000. The latest return tends to shew that the expenditure may not have exceeded Rs. 9,65,000. This will stand as the last estimate for 1882-83.

52. Miscellaneous.—The original estimate under this head was Rs. 2,92,000, and miscellaneous refunds were taken at Rs. 3,38,000. The total expenditure will probably have amounted to Rs. 6,54,000, and this will be taken as the last estimate for 1882-83.

53. State Railways (33).—The working expenses of those railways only which are classed as Productive Public Works are included under this head. The Government of India has increased the revised estimate under this head, amounting to Rs. 19,33,000, by Rs. 33,000. The increase is for the Northern Bengal and Patna Gya lines. The Lieutenant-Governor accepts the estimate of the Government of India.

54. Irrigation and Navigation (39).—The revised estimate of the irrigation canals, amounting to Rs. 10,72,000, has been passed by the Government of India. Later information, however, shews that this amount will be exceeded,

and the estimate will be increased by Rs. 50,000.

Accountant-General, l'ublic Works Department, was Rs. 39,55,000. The reduction of the rate of interest from $4\frac{1}{2}$ per cent. to 4 per cent. reduced this estimate to Rs. 35,16,000. The Government of India, however, increased the estimate of these charges to Rs. 35,62,000. This estimate was allowed to stand. The revised estimate provided for Rs. 35,55,000, which the Government of India

has reduced to Rs. 35,45,000. This includes interest on the capital of Rs. 66,000 laid out on the Ranaghat-Bhugwangola line in 1881-82, and on Rs. 1,00,000, which was to have been expended in 1882-83. As, however, the Provincial Government is not required to pay interest on these amounts, the estimate of the Government of India has been reduced by Rs. 5,000. The estimate will stand at Rs. 35,40,000.

56. State Railways (42).—This head is intended to comprise all expenditure on capital account, on tramways, railway surveys, and railways not classed as Productive Public Works. The revised estimate amounted to Rs. 17,54,000, from which, however, the provision of Rs. 47,000 for administrative charges had been omitted. The Government of India has accordingly raised the

estimate to Rs. 18,01,000, which will stand.

57. State Railways (43) — The revised estimate of working expenses of State Railways, which were not classed as Productive Public Works, amounted to Rs. 1,25,000. This has been accepted by the Government of India.

58. Irrigation and Navigation. (46).—The revised estimate, amounting to Rs. 24,00,000, under this head, has been accepted by the Government of India,

and will stand.

59. Civil Buildings, Roads, &c.—The revised estimate was made up as follows:—

							Rs.
Public Worl	ks in charge	of Public V	Vorks Depa	rtment	**		60,25,000
Ditto	ditto	Civil Dep	partment	***	***	•••	40,000
Refunds	***	***	***	***	***	***	9,000
					Total		60,74,000

The expenditure by the Civil Department has probably not exceeded Rs. 36,000, and the grant of Rs. 62,212, made for acquiring lands for the site of the new civil station of Khoolna, has not yet been appropriated. The payments are likely to be made during the current year, and will be met from the grant fixed for that year. The estimate for the past year will stand at Rs. 60,08,000.

60. A sum of Rs. 13,50,000 was provided in the budget as a reserve for grants for local purposes during the year, and a sum of Rs. 1,36,000 for contribution to the Imperial Treasury on account of anticipated savings in the Customs Department. The savings in the Customs Department are now adjusted through "Land Revenue." The grant to Local Funds, including a contribution of Rs. 4,000 to the Burial Board, will not probably have amounted to more than Rs. 2,88,000. This amount will accordingly be taken as the revised estimate.

61. In the Resolution of the 18th April 1882, it was estimated that the year 1882-83 had opened with a credit balance of Rs. 72,49,000; that the total amount available for expenditure would be Rs. 4,74,05,000; that expenditure on all accounts would amount to Rs. 4,65,92,000; and that the year would close with a credit balance of Rs. 8,13,000. It has been shown above that the year 1882-83 actually opened with a credit balance of Rs. 77,20,000; that the receipts will probably have exceeded the estimate by Rs 4,31,000; and that the expenditure will have fallen short of the total grant by Rs. 8,39,000. The closing balance of the year is therefore Rs. 25,54,000, which is better than the original estimate by Rs. 17,41,000.

BUDGET ESTIMATE, 1883-84.

62. The budget estimate for 1883-84 is as follows:-

and the second being	Heaviers.	and the second					Rs.
Revenue	•••				***		4,22,41,000
Expenditure	***	***	***	***	***	***	4,39,06,000
			PACE NO PERSON	September 1			
					Deficit -	***	-16,65,000

The revenue for 1883-84, including the allotment of Rs. 3,00,000 from the Famine Relief Fund towards the expenditure on the Orissa Coast Canal, is Rs. 16,74,000 more than that of 1882-83, according to the revised estimate as finally adopted; while the expenditure for 1883-84 is estimated at Rs. 17,85,000 less than that for 1882-83, according to the same estimates.

The following are the estimates of Provincial Revenue and expenditure for the current year:-

REVENUE.	Original estimate of Government of Bengal.	Estimate of Government of India,	Estimate as now modified.	Expenditure.	Original estimate of Government of Bengal,	Estimate of Government of India.	Estimate as now revised,
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Opening balance	26,66,500	24,84,000	25,96,000	3.—Refunds 5.—Land Revenue	1,13,000	1,09,000 30,96,000	1,13,000 31,53,000
I.—Land Revenue III.—Salt IV.—Stamps	1,27,37,900 1,59,000 62,50,000 49,50,000	1,25,83,000 1,59,000 62,90,000 49,00,900	1,25,91,000 1,59,000 62,50,000 51,50,000	7.—Salt 8.—Stamps 9.—Excise	21,000 2,15,000 1,89,000	21,000 2,15,000 1,39,000	21,000 2,15,000 1,39,000
V.—Excise VI.—Provincial Rates VII.—Customs VIII.—Assossed Taxes	\$6,52,000 65,500 7,75,000	36,52,000 65,000 7,75,000	86,52,000 65,000 7,75,000	11Cus oms	4,96,000 50,000 2,60,000	4,96,000 50,000 2,50,000	4,98,000 50,000 2,50,000
IX.—Forest X.—Registration XV.—Law and Justice XVI.—Police	4,40,000 5,21,000 18,10,000 6,25,000	4,00,000 5,05,000 18,10,000 6,25,000	4,00,000 5,21,000 18,10,000 6,25,000	14.— Registration	8,12,000 14,89,000 96,45,500 47,78,000	8,12,000 14,90,000 96,49,000 47,78,000	8,12,000 14,89,000 96,45,000 47,78,000
XVII.—Marine XVIII.—Education XIX.—Medical XX.—Scientific and other	8,95,000 6,18,000 1,37,000	8,95,000 6,18,000 1,37,000	8,95,000 6,18,000 1,37,000	21.—Marine 22.—Liducation 24.—Medical 26.—Scientific and other Minor	8,56,000 32,05,000 14,02,000	8,56,000 81,94,900 14,02,000	8,62,000 82,03,000 14,02,000
Minor Departments XXI.—Interest XXII.—Superannuation XXIII.—Stationery and Printing	1,71,000 41,000 79,000 1,27,000	1,71,000 41,000 79,000 1,27,000	1,71,000 41,000 70,000 1,27,000	Departments 29.—Superannuation 30.—Stationery and printing 31.—Miscellaneous	3,66,000 11,66,000 9,50,500 6,47,000	3,66,000 11,67,000 9,60,000 6,97,000	3,66,000 11,67,000 9,51,000 6,47,000
XXIV.—Miscellaneous XXV.—State Railways (gross	6,82,000	6,82,000	6,82,000	36.—State Railways (working expenses)	19,72,500	19,85,000	19,85,000
XXVIIIrrigation and Naviga-	41,77,000	39,75,000	40,83,000	39.—Irrigation and Navigation working, &c.)	10,84,000	10,81,000	10,84,000
XXXI.—State Railways	2,45,000 2,45,000	2,45,000	13,00,000 2,45,000	41.—Interest on debt— Railways	15,70,200	16,03,000	15,94,000 21,86,000
XXXIII.—Irrigation and Navi-	7,81,500	7,81,000	7,81,000	42.—State Railways (capital ac-	22,02,300	21,86,000	Charles of the Control of the Contro
XXXV.—Civil buildings, roads, and services.	7,84,000	7,84,000	7,84,000	count) 43.—State Railways 44.—Sub-idized Railways	9,88 800 1,91,900	9,74,000 1,02,000 70,000	9,74,009 1,92,000 70,000
				46.—Irrigation and Navigation 48.—Civil Buildings	16,00,000 41,36,200	16,00,000 41,62,000	16,09,600 44,62,000
				Contributions	4,29,4°,900 7,50,000	4,81,08,000	4,84,06,009 5,00,000
	4,19,22,930	4,14,09,000	4,19,41,000	Closing balance	4,36,97,900 8,91,500	6,78,000	4,39,01,000 9,81,000
Relief Fund			3,00,000	GRAND TOTAL	4,45,89,400		4,48,37,000
	4,19,22,900	4,14,09,000	4,22,41,000	Provincial surplus (+) or Defi-	Danker	L VENINGER	
GRAND TOTAL	4,45,89,400		4,48,37,000	cit (-)	-17.75,600	-16,94,000	-16,65,000

REVENUE.

63. Land Revenue.—The total land revenue for the year 1883-84 has been estimated at Rs. 3,79,88,000 or Rs. 44,000 more than the actuals of 1881-82, and Rs. 3,87,000 less than the estimate for 1882-33 as finally adopted. The Provincial share of land revenue was originally estimated at Rs. 1,27,38,000. No provision was made in the estimate for inter-provincial adjustments other than those for Shahjehanpore rum, and no deduction was made for savings in the Customs establishment. The estimate, as now adopted, has been obtained as follows:—

Savings in Customs establishment	2,25,000	2,46,000
Contribution to Imperial for extension of meteorological observations Savings in Customs establishment	17,000 2,29,000	
Deduct—		1,28,37,000
Department		25,000
Inter-provincial adjustments Additional charge for pensions of officers of the Customs		3,88,000 1,08,000
The Provincial share, calculated at the percentage (32:2284) 10 per cent. on collections from Government estates	******	1,23,16,000
Rs.		Rs.

65. Salt.—The revenue in the last year was swelled by abnormal receipts in the Sulkea Golahs. The estimate for the current year provides for a total receipt of Rs. 1,59,000, against Rs. 1,47,000, the actuals of 1881-82, and a decrease of Rs. 5,000 compared with the last estimate for 1882-83.

* 66. Stamps.—The Government of India has reduced the estimate of total revenue under this head from Rs. 1,25,00,000 to Rs. 1,24,00,000 with reference to the receipts of the past year, which have probably amounted to Rs. 1,22,13,000. The receipts during the first two months of the current year

shew an increase of Rs. 1,57,000 over the receipts of the corresponding period of the past year. Looking to the continued development of this branch of the revenue, and to the extended use of court-fee stamps, the Lieutenant-Governor would adhere to the original estimate of Rs. 1,25,00,000. The Provincial share will accordingly be taken at Rs. 62,50,000.

67. Excise -The growth of the excise revenue in Bengal during the last

four years has been as follows:-

Rs. Rs. Rs. 1879-80 ... 72,07,000 | 1881-82 93,74,000 | 1880-81 ... 85,53,000 | Revised estimate, 1882-83 ... 97,89,000

The increase in 1880-81 was Rs. 13,46,000, in 1881-82 Rs. 8,21,000, and in 1882-83 Rs. 4,15,000. The increase during the first two months of the current year, compared with the receipts of the corresponding period of the past year, as shewn in the district returns, amounts to Rs. 1,29,000, and though there has been a considerable reduction in the number of outstills, there are indications of a sustained increase in consequence of favourable settlements. The estimate for the current year will be taken at a round sum of Rs. 1,03,00,000, and the Provincial share at Rs. 51,50,000.

68. Provincial rates.—The revenue under this head shows a moderate but steady tendency to increase. The new Cess Act IX (B.C.) of 1880 came into operation in October of that year. The receipts from Public Works cess in 1880-81 aggregated Rs. 34,63,000, and in 1881-82 Rs. 34,84,000. In view of the revaluations in progress, a sum of Rs. 35,25,000 was estimated for 1882-83. The receipts will probably have aggregated Rs. 35,50,000. As it is expected that the revaluations now in progress will be brought to a close before the end of 1883-84, a sum of Rs. 36,00,000 has been estimated for the current year. The other receipts included under this head have been taken at Rs. 52,000. The total estimate stands at Rs. 36,52,000.

69. Customs.—The Provincial receipts are estimated at Rs 65,500, against the original estimate of Rs. 85,000 for the past year. The decrease

is due to smaller receipts anticipated from warehouse rents.

70. Assessed Taxes.—The last estimate of license-tax receipts for 1882-83 amounts to Rs. 15,20,000, against Rs. 16,39,000, the actuals of 1881-82. The decrease is due for the most part to reduction of receipts from penalties, a large portion of which could not be expected to recur during the year. There is a tendency of the receipts to increase during the current year. The estimate stands at Rs. 15,50,000, which has been accepted by the Government of India. One-half of this is Provincial.

71. Forest.—The Government of India has reduced the local estimate under this head from Rs. 8,80,000 to Rs. 8,00,000. The reduction appears specially in the estimate of the Kurseong and Singbhoom divisions, and under

the head of bamboos. The Provincial share amounts to Rs. 4,00,000.

Rs. 10.42,000. The Government of India has reduced it by Rs. 31,000, and has adopted the estimate originally sanctioned for the past year. The estimate of this Government provided for an increase of Rs. 31,000, because it was anticipated that the registration of a large number of Indigo contracts and of documents connected with the settlement operations in Durbhunga would be effected during the current year, and it was considered that the receipts from searching fees under the rules of the High Court were likely to increase. The last estimate of the past year amounts to Rs. 10,40,000. The estimate of Rs. 10,42,000 will be retained for 1883-84. Half of this amount is Provincial.

73. Law and Justice.—The total receipts for 1883-84 under Law and Justice (Proper) have been estimated at Rs. 8,75,000, against Rs. 9,06,000, the first estimate for the past year. The decrease is owing to a certain extent to the more extended use of court-fee stamps, and to a consequent reduction in the amount paid as fees. An increase of revenue from this source has been provided in the Stamp budget. The original estimate of the Inspector-General of Jails placed the sale proceeds of jail manufactures at Rs. 12,43,000. These included receipts for goods supplied to the jails and departments coming under Law and Justice, which could not, under existing orders, be credited in the accounts. The estimate under the head of Jails amounts to

Rs. 9,35,000. The gross estimate under Law and Justice will be at

Rs. 18,10,000.

74. Police.—The actuals in 1881-82 amounted to Rs. 5,23,000, and the revised estimate stood at Rs. 4,86,000. The estimate for the current year is Rs. 6,25,000. An increase is anticipated under "Recoveries on account of village police," and a provision of Rs. 65,000 has been made on account of "Deductions from policemen for clothing." These recoveries have not hitherto been shewn in the general accounts, but have been deducted from the pay of the police, the net pay only being charged in the accounts.

75. Marine.—The estimate under this head amounts to Rs. 8,95,000, against Rs. 8,28,000, the original estimate for 1882-83. The estimate has been

accepted by the Government of India, and will stand.

76. Education.—The total receipts of the Education Department for 1883-84, exclusive of the interest on Government securities belonging to that Department, are estimated at Rs. 6,18,000, against Rs. 5,22,000 for the past year. The estimate for the current year includes a sum of Rs. 65,000 on account of contributions from municipalities for educational purposes. Some increase is also anticipated under "Fees and fines of schools and colleges." The estimate, which has been accepted by the Government of India, will stand.

77. Medical.—The receipts are estimated at Rs. 1,37,000, against

Rs. 1,36,000, the actuals of 1881-82, and will stand.

78. Scientific and other Minor Departments.—The public enquiry for cinchona febrifuge still continues to increase, but the demand from medical depôts has diminished. The total receipts in 1881-82 were Rs. 1,97,000, and the revised estimate for 1882-83 amounts to Rs. 1,65,000. The estimate for 1883-84 has been taken at Rs. 1,71,000.

79. Interest.—The estimate amounts to Rs. 41,000, the same as the

revised estimate for the past year.

80. Superannuation.— The receipts are estimated at Rs. 79,000, against Rs. 74,000 for the current year. The increase is under the head of contributions for pensions and gratuities. The number of officers employed on duties outside the Government service has increased, but the rate of contribution has been reduced by the Government of India.

81. Stationery and Printing.—The receipts are estimated at Rs. 1,27,000, against Rs. 1,12,000, the original estimate for 1882-83. The increase is under "Sale of Stationery" and "Other Press Receipts." The revised estimate for

1882-83 amounts to Rs. 1,47,000.

82. Miscellaneous.—The receipts in 1881-82, exclusive of the sale-proceeds of durbar presents, were Rs. 7,01,000. The receipts formerly taken under "Other items" are now for the most part credited to the several departmental heads under orders of the Comptroller-General. The estimate for the current year is Rs. 6,82,000.

83. XXV .- State Railways .- The following table compares the estimates

for 1883-84 with the revised estimate for 1882-83:-

		1	Revised estimate, 1882-83.	Estimate of Local Government, 1883-84.	Estimate of India, 1883-84.
	+ 1000		Rs.	Rs.	Rs.
Northern Bengal Tirhoot Patna and Gya Calcutta and South-I Nalhati	Eastern		22,00,000 7,00,000 3,90,000 1,68,000 70,000	24,00,000 12,30,000 3,50,000 1,25,000 72,000	23,00,000 12,30,000 2,50,000 1,25,000 70,000
	Total		35,28,000	41,77,000	39,75,000

The traffic on the Northern Bengal Railway continues to expand, the improvement being chiefly due to a steady growth in jute and tobacco traffic. An increase of Rs. 2,00,000 was provided by the Public Works Department, but the Government of India would reduce this to Rs. 1,00,000. Having regard to the progressive increase in the receipts of this line during the past few years, the Lieutenant-Governor thinks that the higher figure is well within the mark. The estimate of the local Government will be retained.

The extensions to Jhinjarpore and Motihari of the Tirhoot Railway have recently been opened, and with this addition to the open mileage it is

expected that the increase of Rs. 5,30,000, allowed for in 1883-84, will be realized.

The Government of India has reduced the estimate of receipts from the Patna-Gya Railway by one lakh. The net receipts are estimated at Rs. 3,20,000, of which one-fifth is payable to the East Indian Railway Company under the terms of the working agreement, leaving a balance of Rs. 2,56,000 to be credited to Government for this. This amount will accordingly be taken as the estimate for the current year.

The estimate of the Calcutta and South-Eastern Railway for 1883-84 shews a decrease of Rs. 43,000 compared with the revised estimate for 1882-83. This is owing to the return of the rolling-stock previously hired to the Patna

and Gya Railway. The receipts from this source now cease.

The Government of India has placed the estimate of the Nulhati Railway at Rs. 70,000, the same as the revised estimate for the past year. As some increase is anticipated, the original estimate of this Government, amounting to Rs. 72,000, will be retained.

84. XXVIII.—Irrigation and Navigation.—The Government of India has accepted the local estimate of Rs. 12,00,000 under this head. The receipts during the past year will probably have amounted to Rs. 13,00,000, and there is no reason to suppose that the receipts during the current year will be less than those for the past year. The estimate will be raised to Rs. 13,00,000.

85. The Government of India has accepted the local estimates under XXXI, State Railways; XXXIII, Irrigation and Navigation; and XXXV, Civil Buildings, Roads and Services. The estimates will stand at Rs. 2,45,000,

Rs. 7,81,000, and Rs. 7,84,000, respectively.

EXPENDITURE

86. Refunds.—The difference of Rs. 4,000 under this head between the estimate of the Government of India and that of the Local Government represents the Provincial share of the rents payable to the superior landlords on account of the subordinate tenures in the escheated estates of Gya. This amount was added after the budget had been passed, and has probably not been included in the estimate of the Government of India. The local estimate of

Rs. 1,13,000 will stand.

87. Land Revenue.—The estimate, as originally sanctioned by this Government, was Rs. 30,93,000. The total cost of surveys and settlements was estimated at Rs. 1,90,700, and the Provincial share at Rs. 61,800. The Government of India has raised this estimate by Rs. 10,000, and the Provincial share by Rs. 3,000. A reference has been made to the Government of India as to the inadequacy of the allotment made in the new contract to cover the charges which will be thrown on the Provincial Revenues according to the classification recently prescribed. Pending the result of this reference, the estimate of this Government will be retained. An addition of Rs. 60,000 will, however, be made under this head to cover the increase in the allotment for the charges on account of Government estates, which has been granted to meet the requirements of local officers. The total estimate will stand at Rs. 31,53,000.

88. Salt.—The estimate amounts to Rs. 21,000, against Rs. 18,000 for the past year. The increase is chiefly due to large provision being made for

petty construction and repairs of the Chittagong golahs.

89. Stamps and Excise.—The local estimates of expenditure under Stamps and Excise have been accepted by the Government of India, and will stand at Rs. 2,15,000 and Rs. 1,39,000 respectively, against the revised estimate of Rs. 2,12,000 and Rs. 1,34,000 for the current year.

90. Customs.—The estimated expenditure for 1883-84 amounts to Rs. 4 96,000, shewing a decrease of Rs. 2,09,000 compared with the original estimate of Rs. 7,05,006 for the current year. The decrease is due to reductions in the Customs establishments owing to the abolition of the import duties.

91. Assessed Taxes.—A provision of Rs. 1,00,000 is made for the collection of license-tax during 1883-84. The same amount was fixed for 1881-82 and 1882-83. The expenditure on this account is equally divided between the Imperial and Provincial Governments. The Provincial share amounts to Rs. 50,000.

92. Forest.—The Government of India has passed the estimate under this head for a round sum of Rs. 5,00,000, against Rs. 5,20,000 adopted by this Government. A reorganization of the subordinate forest establishment has since been sanctioned at an annual cost of Rs. 90,000, against Rs. 72,600 provided in the budget, and the excess expenditure will have to be met from savings. The estimate of the Government of India will stand.

93. Registration.—The Provincial expenditure under this head is estimated at Rs. 3,12,000, against Rs. 3,15,000 for the past year. The reduction is mainly due to changes made in Chittagong and Arrah, under which the subregistrars of those places, who were formerly in receipt of Rs. 200 per mensem

each, are now paid partly by fixed salaries and partly by commission.

94. Administration—The actual expenditure in 1881-82 amounted to Rs. 14,72,000. The estimate of the Local Government for 1883-84 was Rs. 14,89,000, and this has been raised by the Government of India to Rs 14,90,000. The increase in 1883-84 is partly under "Secretariat Establishment" and partly under "Examiner of Local Accounts," the Government of India having sanctioned additional establishments for the extension of the system of local audit. The revised estimate for the past year is Rs. 15,07,000. There has been reduction in the Customs Department of the Beard's Office. The estimate for 1883-84 will be Rs. 14,89,000.

95. Law and Justice.—The Government of India has adopted the estimate of the Accountant-General as originally submitted to this Government. This estimate made no provision for the pay of an additional Subordinate Judge for the new district of Khoolna, or for the personal allowance of Rs. 100 per mensem of the four Subordinate Judges now in the grade of Rs. 600, and getting Rs. 100 extra each. On the other hand, his estimate of charges for the service of judicial processes was reduced, and the hospital charges of "Central Jails" were increased with reference to the probable requirements of the year. The Lieutenant-Governor would retain the estimate of Rs. 96,45,000 as originally passed.

96. Police.—The estimate of police charges, including refunds, amounts to Rs. 47,78,000 against the original estimate of Rs. 45,81,000 for the past year. The large increase is mainly due to the amalgamation of the municipal with the regular police, and to additional provision for the Chittagong Frontier

Police.

97. Marine.—The actual expenditure in 1881-82 was Rs. 10,55,000. The revised estimate amounts to Rs. 9,09,000, and the estimate for 1883-84, including refunds of Rs. 6,000, to Rs. 8,56,000. The large decrease in 1882-83 and 1883-84 is due to the transfer of the Port approaches and the False Point light-house to the Port Commissioners. The revised estimate for the past year also includes a large expenditure for ship-building, which it is expected will not recur in 1883-84. A grant of Rs. 6,000 has been made to the Balasore Port Fund, which will be adjusted under this head. The estimate will stand at Rs. 8,62,000.

98. Elucation.—The original grant for 1882-83 was Rs. 29,60,000. The revised estimate amounts to Rs. 30,11,000, and the Accountant-General's estimate for 1883-84 provides for a total expenditure of Rs. 31,94,000, which includes an additional provision of one lakh for primary education over the grant for the past year. A sum of Rs. 2,000 has been added to the Accountant-General's estimate for travelling expenses of Inspectors of Schools, Rs. 2,000 for a building grant to the St. James' Boys' School, and Rs. 5,000 to the grant for primary education in Government estates. The estimate, as passed by the

Local Government, amounts to Rs. 32,03,000, and will stand.

99. Medical.—The actual expenditure in 1881-82 was Rs. 10,75,000. The revised estimate of the past year amounts to Rs. 13,55,000, and the estimate for 1883-84, including refunds of Rs. 8,000, to Rs. 14,02,000. The large increase in 1882-83 and 1883-84 is due to the transfer to Medical Establishment Proper, from Imperial to Provincial, the cost of which is estimated at Rs. 4,70,000. Against this increase there has been a decrease under hospitals and dispensaries, owing to the transfer to municipalities of the hospitals and dispensaries situated within municipal limits.

100. Scientific and other Minor Departments.—The estimate under this head amounts to Rs. 3,66,000 against the original estimate of Rs. 3,06,000 for

the past year. A provision of Rs. 11,000 has been made on account of the proposed extension of the cinchona plantation to the trans-Teesta portion of the Darjeeling district. A provision of Rs. 60,000 has been made for the International Exhibition to be held in Calcutta in the middle of 1883-84. The

estimate of Rs. 3,66,000 for the current year will stand.

101. Superannuation.—The charges for 1883-84 were originally estimated by the Accountant-General at Rs. 12,16,000, against the original estimate of Rs. 10,28,000 for the past year. A sum of Rs. 50,000 was provided for marine pensions, which were formerly adjusted under the head of Imperial Marine. The provision has been struck out, as the marine pensions were not made Provincial in the new contract. The revised estimate for 1882-83 amounts to Rs. 11,80,000. The increase is mainly due to the premature retirement of Customs officers. The charges for bonuses and gratuities will not be so large as in 1882-83, and the total estimate has been placed at Rs. 11,67,000.

102. Stationery and Printing.—The difference of Rs. 9,000 between the estimate of the Government of India and that of this Government represents the amount by which the Local Government reduced the Accountant-General's estimate of the cost of printing for the Opium Department at private presses. The Board of Revenue reported that there was no necessity for this provision,

and it was struck out. The local estimate of Rs, 9,51,000 will stand.

103. Miscellaneous.—The Government of India has entered Rs. 3,74,000 as the estimate under this head, made up as follows:—

						Rs.
Imperial	***		***	***	255	45,000
Provincial	***	***	***	***		3,09,00
Local	1.01	***	***	***	***	20,000
				Total	***	3,74,000

The Provincial expenditure amounts to Rs. 3,09,000, and to this has been added Rs. 3,38,000 on account of miscellaneous refunds. The grant will stand at Rs. 6,47,000.

104. State Railways (36).—The details of the estimates under this head, compared with the revised estimate for 1882-83, are as follow:—

				Revised estimate.	Estimate	0, 1883-84.	
	No.			1882-83.	Local Government.	Government of India	5
				Rs.	Rs.	Rs.	
	Northern Bengal	111		10,60,000	11,49,000	11,00,000	
	Tirhoot	***	***	4,65,000	6,71,000	7,30,000	
	Patna and Gya		***	2,60,000	******	******	
ļ	Calcutta and South	-Eastern		1,18,000	91,500	92,500	
	Nulhati	***	***	62,500	61,000	62,500	
		Total	344	19,65,500	19,72,500	19,85,000	
				The second secon			

An increase of Rs. 89,000 was provided in the estimate of the Northern Bengal Railway to cope with the larger traffic expected, and also to provide for extensive renewals of sleepers found to be necessary. The Government of India has reduced the anticipated increase of expenditure to Rs. 40,000.

The large addition made in the estimate of the Tirhoot Railway is due to

the additional lengths of line recently opened to traffic.

No provision has been made for the Patna-Gya Railway, as it will be worked by the East Indian Railway Company. A reduction of expenditure is anticipated in the Calcutta and South-Eastern Railway.

105. Irrivation and Navigation (39) .- The Government of India has

adopted the local estimate of Rs.10,84,000.

106. Interest.—As explained above, the Local Government is not liable for interest charges on the capital expended and to be expended on the Ranaghat-Bhugwangola line. The estimate of the Government of India, amounting to Rs. 37,89,000, will be reduced by Rs. 9,000.

107. State Railways Capital Account (42).—The difference of Rs. 15,000 under this head between the estimate of the Government of India and that of Bengal is due to the refund of Rs. 15,000, advanced from Provincial Funds in 1882-83, for the Tarakessur railway survey. The estimate of the Government of India will be adopted.

108. Subsidized Railways (44).—The provision of Rs. 70,000 made under this head is for the cost of the land which will be taken up in 1883-84 for the Baidyabutty-Tarakessur Railway.

109. Civil Buildings, Roads, and Services. - The grant under this head is

raised to Rs. 44,62,000.

110. Contribution.—A sum of Rs. 7,50,000 was originally reserved for contributions to municipal and other local funds. It is doubtful if so large a provision will be required in the current year, and the estimate will be reduced to Rs. 5,00,000.

111. Incorporated Local Funds.—The following table shews in one view the actual receipts and expenditure of the Incorporated Local Funds during 1881-82, the revised estimates for 1882-83, and the estimates for 1883-84:—

	Actuals, 1881-82.	Revised estimate, 1882-83.	Estimate of Local Govern- ment, 1883-84.	Estimate of Government of India, 1883-84.
RECEIPTS.	Rs.	Rs.	Rs.	Rs.
Opening balance	19,47,000	15,76,000	16,01,000	13,04,000
District Road Fund Ditto Road Account Ditto Post Fund Estates Improvement Fund Inland Labour Transport Fund Contribution from Provincial	37,70,000 9,000 3,16,000 1,33,000 88,000 3,00,000	\$9,32,000 7,000 3,55,000 64,000 2,84,000	36,73,000 6,000 3,17,000 74,000 3,47,000	36,55,000 6,000 3,17,000 74,000 3,10,000
Total	46,16,000	46,42,000	44,17,000	43,62,000
GRAND TOTAL	65,63,000	62,18,000	- 60,18,000	56,66,000
Expenditure.				
District Road Fund Ditto Road Account Ditto Post Fund Estates Improvement Fund Inland Labour Transport Fund	43,18,000 55,000 3,02,000 1,13,000 60,000	41,95,000 57,000 3,17,000 	48,43,000 52,000 3,24,000 61,000	48,43,000 52,000 3,24,000
Contribution to Provincial	1,39,000			*****
Closing balance	49,87,000 15,76,000	46,17,000 16,01,000	- 52,80,000 7,38,000	52,80,000 3,86,000
GRAND TOTAL	65,63,000	62,18,000	60,18,000	56,66,000

The revised estimates for 1882-83, as shown above, have been framed with reference to the latest figures of the year received from the Accountant-General. This estimate shews that the receipts in the past year, including the grants-in-aid from Provincial Funds, may have amounted to Rs. 46,42,000, and the expenditure to Rs. 46,17,000. There was thus a surplus of Rs. 25,000, instead of a deficit of Rs. 1,65,000 as estimated in the Resolution of 18th April 1882. For 1883-84 the Government of India has accepted the estimates of receipts and expenditure as originally submitted by the Accountant-General. The Lieuten-ant-Governor, with reference to the actuals of 1881-82, raised the estimate of miscellaneous receipts of the District Road Fund by Rs. 20,000, and reduced those from the 1 per cent road cess by Rs. 2,000. The estimate, as passed by this Government, will accordingly stand.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Government of Bengal.

PROPORTION IN WHICH THE PAY OF MEDICAL OFFICERS IN CHARGE OF MUNICIPAL DISPENSARIES, SUBSIDIARY JAILS AND SUB-DIVISIONS, IS TO BE PAID BY GOVERNMENT AND MUNICIPALITIES.

MUNICIPAL DEPARTMENT-MEDICAL.

Darjeeling, the 4th July 1883.

RESOLUTION.

In the Resolution of the Financial Department, dated the 20th February 1882, by which municipalities were relieved of all charges on account of police, and were, on the other hand, required to bear the cost of maintaining dispensaries situated within municipal limits, no orders were passed to define what proportion of the pay of a medical officer, who was in charge both of a municipal dispensary and of a sub-division and lock-up, was to be considered a charge against the dispensary. Experience has shown that in almost every case the charge of a municipal dispensary can be conveniently united with that of a sub-division, without detriment to the work of either, and that it is unnecessary to maintain two medical officers at the head-quarters of a sub-division—one, the servant of the municipality, in charge of the municipal dispensary; and the other, the servant of Government, in charge of the sub-division and subsidiary jail. By amalgamating the two appointments, the salary which one of these officers would have drawn is saved, and the question arises as to the proportions in which the saving should be divided between Government and the municipality.

2. A medical officer holding the dual appointment is entitled to draw—
(1) his grade pay; (2) any special allowances to which he may be entitled under the rules on account of the dispensary, sub-division, or subsidiary jail. The additional allowances present no difficulty. A dispensary allowance would be paid by the municipality; while those for the sub-division and jail would be borne by Government. Hitherto, however, no fixed rule has existed as to the incidence of the grade pay. This is sometimes borne wholly by Government, sometimes wholly by the municipality, and sometimes in varying proportions by both. The Lieutenant-Governor considers that this anomalous state of things should not be allowed to continue, and that some definite principle should be laid down to regulate the proportions in which the charge

should be shared between Government and the municipality.

3. The Lieutenant-Governor has consulted the Surgeon-General and district and divisional officers on the subject. The Government undertakes, as a part of the medical administration of the province, to maintain a civil medical officer at the head-quarters of every sub-division, irrespective of any arrangements that may be made by municipalities for the charge of their dispensaries. When the services of an officer of this class are in part lent to any municipality, it would not be unreasonable to require that a corresponding part of his salary should be paid by the Municipality. The Lieutenant-Governor, however, desires to treat local Government bodies with the utmost liberality in his power. He has therefore resolved that, when any municipality desires to utilize for the charge of its dispensary the services of the medical officer provided by the Government for the charge of the sub-division, it shall be entitled to avail itself of those services on payment of the usual dispensary allowance only, and shall not be required to bear any part of the medical officer's grade pay. On the other hand, however, it would manifestly be unjust that, in such a case, Government should be expected to post to any sub-division a medical officer of higher qualifications than are needed for the proper discharge of the Government work alone, i.e., for the medical charge of the subsidiary jail and sub-division, apart from the municipal dispensary. The Surgeon-General is of opinion that the requirements of an ordinary sub-division will be adequately met by appointing a civil hospital assistant of the lowest class. The Lieutenant-Governor therefore directs that the pay of an officer of this class shall be considered to be the standard pay of a sub-divisional charge, and shall be borne wholly by Government. In some sub-divisions, however, exceptional circumstances will probably render it necessary to provide an officer of higher qualifications. In all such cases, the class of an officer to be appointed will be settled authoritatively, and his pay will be borne entirely by Government. Thus, if a civil hospital assistant of the third class is sufficient for the requirements of both the sub-division and the municipal dispensary,

his entire salary will be borne by Government, the municipality being only required to pay his dispensary allowance. Similarly, where an officer of a higher class than a third class hospital assistant is appointed to the subdivision on the part of Government, the municipality will not be called upon to make any contribution towards his grade pay, if his qualifications are such

as to meet their requirements.

4. On the other hand, cases will probably arise in which the charge of a municipal dispensary may require, for its proper conduct, an officer of higher professional qualifications than is needed for the medical charge of the subdivision and subsidiary jail apart from the dispensary. In such a case the Lieutenant-Governor will be prepared to appoint to the dual charge an officer of the Government establishment of such qualifications as the municipality may desire, provided that his services can be made available on the condition that the municipality are prepared to pay the whole difference between his grade pay and that of the standard Government medical officer sanctioned for

the sub-division, besides paying him the usual dispensary allowance.

5. The Surgeon-General will be requested to prepare at once, in consultation with the local civil and medical officers, a list of all the sub-divisions in the province, classified according to the grade of medical officer they require for the Government work alone; and the proportions of the charge on account of the medical officer's pay to be borne by Government and the local municipality respectively will in each case be determined in accordance with the principle now laid down. This principle will also be applied, mutatis mutandis, in the case of any sub-division at the head-quarters of which there is a dispensary in class I of the rules, which is maintained otherwise than by a municipality, and the supporter of which is desirous of availing himself of the services of the Government civil medical officer in charge of the sub-division

ORDER-Ordered that a copy of the above Resolution be forwarded to the

Surgeon-General for information and guidance.

Ordered also that a copy of the above Resolution be forwarded to all Commissioners of Divisions for information and for communication to all municipalities in their divisions.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Government of Benyal.

Rainfall, Weather, and State and Prospects of the Orops.

Statement snowing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 7th July 1883.

	6.	District, and date of yeturn.	Rai at Su Stati incl	der Character of the weather, state and prospects of the crops, and state of health at date.
EN	GA	L.		
		Western Districts.		
1	1	Burdwan, July 7 Raneegunge	83 0	Weather-cloudy, with drizzling showers at intervals. In the Cutwa sidivision agricultural operations have been retarded for want of rain.
9		Culna	0	sufficient rain is also reported from Culna. In other parts of the district, plous
1		Cutwa	1	ing and transplanting are in progress and prospects are fair.
	2	Bankoora, " 7	" 3	
A.		Maliara	1	
}		Khatra	21	
1	3	Beerbloom 7	25	
		asampore made		south of district.
3	4	Midnapore, , 7	,, 3.1	Weather-cloudy and rainy. Rains did good to the cultivation. Sowing
1	6	Hoorbly 7	2.9	paddy still going on Public health good.
7		Hooghly, , 7	. 2.5	Weather-high wind and rain. Prospects of crops good. General hea
	ΒŌ	Howrah July 9	, 2.8	Weather-showry. Transplanting of winter rice begun. Aus rice, jute a
1		Oolooberia	3.4	sugarcane growing healthily. No further report of injury to jute by floods.
1	6	24-Pergunnaha, July 9	93 3.4	Weather-cloudy and rainy. The early crops are doing well. Transplanti
1		Maria Caraca Car		of amun rice is going on in low lands. High lands are being prepared
1	7	Nudden		the purpose, Public health is generally good.
1	100	Nuddea, " 7	1.8	
1		Meherpore	1.9	
1		Chooadanga	06	
1	8	Ranaghat Khoolna, , 7	2 6	
1	1990	CON TO THE RESERVE OF THE PERSON OF THE PERS		begun; prospects are good. Public health is good.
ı	9		2.8	
ı		Bongong Jhenida	22	
1	134	Narail	0.8	
1	10	Magura	2.1	
	10	Moorsbedabad, ,, 7	, 1.0	Weather—hot. Prospects of the crops continue to be favourable. Transplanti of amun has commenced in some places. Health generally good.
1	11	Oinagepore, July 6	83 0.2	Weather—cloudy, with rain at intervals. Bhadoi dhan is fast coming into e The transplanting of amun still continues. Jute is doing well, except
ı	12	Stajshahve 7	1.2	Rajarampore. Rice selling at from 17 to 28 seers per rupee, Weather—occasional light showers. East wind varying in strength. Pad
ı		Nattore	1.6	
ı		Nowgong	0.3	
ł	13	Part A	02	
Ŧ	110	Kurigram	0.3	
1	14	Nilphamari Boera 7		Weather sales and fall of main during the week and a clints at a
1		Bogra, " 7	1.6	Weather—only a good fall of rain during the week, and a slight drizzle ne day (5th). Transplanting of amun commenced. Jute and aus paddy are doing
1	100			well. General health good.
1	15	"ubna, ,, 7	1.5	Weather-changeable; first cool with northerly winds followed by still hot day
1	16	Darjeeling, , 7	3.1	Crops doing well. Rain wanted. Rivers falling. Weather—seasonable. All native crops doing well. Harvesting of murna a
1		Darjeening, s, 7	3.00	makai in the hills has commenced. Outturn of tea to date on the whole belt
1	17	Toronto.	1.9	last year's. There is still some cholera about both in the Hills and Terai.
1		Juipigoree, ,, 7	1.8	Ryots in one part of the district seem to have mismanaged their transplanting
1	Some	culary analysis by a large	of Table	Cholera still lingering in the district.
	Still Still	Dishatte	0.5	
1	30	Dinhatta up to 1st.	9.9	abating elsewhere.
	C/FE	Mathabhanga	9.2	
	100	up to 30th.	0.7	
	8,8,13	Meckligunge up to 30th	97	
	1	Eastern Districts.	1	
1	18	Dacca July 7 '	175 100 100 100 100 100 100	Weather-seasonable. Roachi'r and shail paddy, moong and kalai are being sow
1	NE B	The second secon	. 0.9	Aus is being harvested. Harvesting of jute commenced. Amun, jute an sugarcane thriving well. Crops have to a certain extent been damaged owing
1	E	THE RESERVE OF THE PROPERTY OF THE PARTY OF	1.6	the sudden rise of water. Jute has to a certain extent been destroyed by worn
1	10	Furreedpore 7	0.5	in Nowabgunge station.
4	10	Claslando	0.50	Weather—generally fair and breezy. State and prospects of the crops still ver fair. The rivers are pretty high with the water from up-country, but ver
1	4544	Madaniana	1.90	little rain has yet fallen in the district, and much more is wanted. Publ
1	DO:	美国的国际人员		health pretty good, but there is some fever.
I	20	Backergunge, , 5 ,	4.78	We-ther-seasonable. Prospect of aus crop is good. Cultivation of amun progressing. General health of the district is good.
	21	Mymensingh, " 6 ,		Weather-grown much warmer, but little rain, cloud or wind during the week
		Jamalpore	0.9	More rain is wanted for the rice crop. Jute and aus promise well in north-wa-
ø	1	Kishoregunge	receive	and south-west, but not so elsewhere. Amun being sown. Public healt
	230	Atten	0.45	
	34	PERSONAL PROPERTY OF THE PROPERTY OF THE PERSONAL PROPERTY OF THE PERSO	. 05	

No. District, and date of at Sudo return. Station					Rainfall at Sudder Station in inches.	
BE	NGA	L —conold.				
Eas		Districtsconcld. Chittagong July	10	'83	1.78	Weather-seasonable. Transplanting of aus rice nearly over. Sowing of amus
CHILTAGONG DIVE.	23	Noakholly, "	5	,,	7:43	actively going on. Prospects fair Prices stationary, sporadic cholera and cattle-disease continue. Fever abating. Weather—generally cloudy with occasional rain and coldish towards the morning. Aus paddy is ripening and amun is being transplanted, generally low
0000	24	Tipperab,	5	,,	4.78	parts of the district are flooded. Weather—seasonable. Early rice, jute, and sugarcane progressing well. Report
ATT	1	Brahmunbaria Chandpore			3·47 5·80	of some damage by insects to early rice plants, not serious, received from four of the police stations of the district. Public health generally good.
5	25	Chittagong Hill ,,	3	"	3.62	Weather—occasional showers; heavy thunderstorm on the afternoon of 2nd. Jhum paddy doing well, but cotton crop will be very short.
	\	Hill Papperah. "	7	n	6.91	Weather—warm, rainy and seasonable. Amun paddy being transplanted. To being gathered. Prospects of sugarcane fair. Public health good.
Bic	HAR					
	26	Barh Behar	7	47.	Nil 0·1 2·77	Weather—hot and cloudy. Sowing of bhadoi and paddy is going on. Sugarcan is progressing. Cholera still reported from Behar and Silao thana.
	Dist.	Dinapore			0.10	Waster shad and and with high mind Badd, Yelling and and any
	27	Gya "	7	"	2 00	Weather—cloudy and cool with high wind. Paddy, Indian-corn, and pulses are being sown under favourable auspices. Cholera is abating, but cattle-pox i very prevalent.
VS.	28	Shahabad, ,, Buxar	7	**	0.67	Weather—hot and cloudy at intervals. State and prospects of the crop favourable.
5	(Sasseram Bhabocah		***	0.80	
PATRA DIVE.	29	Durbhunga, "	7	'83	0.32	Weather—hot and cloudy with east wind. Agricultural operations in rapi progress. Murwa, makai and dhan being transplanted Prices stationary Cholera almost gone.
	30	Mozuderpore,	7		0.87 0.17	Weather - cloudy and showery with intervals of strong sun. The weather very favourable to the young crops which are coming up. Sowings and trans
	31	Sectamurhee Sarun,	7		0·70 3·97	planting make good progress, Weather-generally cloudy and hot. Sowings of bhadoi crops going or
	91	Sewan Gopalgunge	'		0.04 Nil	Transplanting of paddy in low lands has commenced. Manufacture of indig has begun; prospects on the whole good. Sporadic cases of cholera, and smal pox reported from Gopalgunge sub-division.
	32	Chumparun "	7	**	4.8	Weather-cloudy with high winds and showers. All crops looking well. Bhade
1	33	Monghyr, July Beguserai	7	'88	0·11 Nil	and aghani sowings in progress. General health fair. Weather—hot and cloudy. Bhadoi and aghani sowings progressing. Prospect favourable. Public health good.
E DIVE.	34	Jamui Bhaguipore, "	7	,,,	0.11	Weather—hot; more rain in south of district than in the Sudder or northern sub divisions. In the part of the district south of the Ganges the prospects are good. In the north the prospects th ugb not so good, are fair. Ploughing and sowing going on actively. General health good.
POR	85	Purneah, "	7	,,	1 59	Weather—steamy. State and prospects of crops very good. Health fair.
DHAMULFORE	86	Maldah, "	7		0.13	Weather—sky clear; moderate south-east wind and occasional showers of rain Jali rice is being reaped. The standing crops, such as bhadoi, amus makai, and kheri, are doing well, but more rain is wanted. Public healt
1	87	Southal Perghs. "	7	,,	100	generally good. Weather—cloudy, with occasional showers. Bhadoi crops promising. Transplant ing of rice crop progressing.
		Deoghur Godda			2.05	ing or rice crop progressing.
		Rajmehal Jamtara			Nil 1:48	
1	-	Pakour			0.77	
1	38 38	Cuttack, July	6		9.53	Weather—cloudy and rainy. Beali and sarad rice are growing well, but i some places the young plants have been submerged in consequence of heavy and the property of the rivers rose but no appropriate the property of the rivers rose but no appropriate the property of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the research of the rivers rose but no appropriate the rivers rose
CHARGE CALL		100		v	III overelle	rain, but no damage is reported. The rivers rose, but are now falling; only one breach in the Alanka bund has been reported. Prices stationary. Publication generally good.
	89	Pooree, ,,	5	"		Weather—very wet. Heavy rain all over the district. The rivers are in flood embankments have been breached in three places and some damage to crop
		Khoorda			10:54	in low lands is anticipated. Miscellaneous crops thriving. Common rice sellin at from 25 to 36 see-s for the rupee. Public health good.
-	40	Balasore, "	6		9 97	Weather—cloudy and rainy with occasional gleams of sunshine. Rainfall in Jun about 18 inches, not far from one-third the average fall of the year. Crop are doing well. Re-ploughing is going on. Rice selling at from 25 to 44 seer
H)TA	NAGPORE.				to the rupee. Public health generally good.
CPA-		th-West Frontier Agency.		, C mm	1. 415	
ŧ.	41	Hazaribaga, July	6	'83	3.25	Weather—warm and cloudy. Sowing of bhadoi and early rice crops continued General prospect good. Public health good.
	42	Lohardugga. " Palamow	7	'83	6:35 :82	Weather—showery. A break would do good at head-quarters. Cutting of Jewo dhan has begun. Prospects favourable. In Palamow, though little rain ha fallen, matters are satisfactory. There have been a few cases of cholera is
	43	Singbhoom, ,,	6		6.30	Hasainabad. Prices steady. Weather—seasonable. The rainfall has been general and abundant. Every thing doing well. Prospects fair. General health good.
	44	Manbhoom,	7			Weather-rainy and cool. Prospects of rice crop and of upland crops very
		Govindpore		***	1.42	promising. Public health good.

Published for general information.

CALCUTTA, STATISTICAL DEPT.,
The 10th July 1883.

Secy. to the Gont. of Bengal.

STATEMENT SHOWING THE STOCK OF RICE IN AND AROUND CALCUTTA.

					STOOK		IN HAND AS COMPILED ON-				PICTOR	11年の日間の日本	
NAMES OF MARIS.	1st week of July 1882.	1st week of August 1882.	1st week of Sept. 1882.	1st week of Oct. 1882.	1st week of Nov. 1882.	1st week of Dec. 1882.	1st week of Jan, 1883.	1st week of Feb. 1885.	1st week of March 1883.	1st week of April 1883.	1st week of May 1883.	1st week of June 1883.	1st week of July 1883.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	Mds.
Baliaghatta	3,80,500	3,94,000	4,17,500	4,21,000	2,69,000	2,50,690	8,85,900	5,59,599	7,40,000	8,35,000	6.59,099	6.52.000	5,67,500
Colfadanga	65,500	11,700	76,700	63,300	65,500	47.600	62,100	48,200	89,900	1,06,400	1.07.500	1,22,500	1.22.200
Chitpore, Golaharee, Coomer- tooly, Hatkhola, and Culpy Ghat.	6,89,700	7,03,800	7,24,700	7,05,500	6,49,600	6,95,200	6,42,050	6,11,400	7,22,200	9,14,200	7.92,900	8,50,100	9,59,400
Pathuriaghatta, Posts, and Jorabagan.	16,500	21,500	22,500	28,000	10,500	16,500	21,700	13,200	49,500	18,200	3,400	15,500	15,400
Tollygunge, Chitiah, Kidderpore, and Moonshigunge.	1,06,700	1,39,800	1,56,200	1,38,290	1,06,200	1,01,800	1,17,800	1,00,000	1,11,600	1,20,400	1,87,300	1,51,100	1,12,200
21 Minor Barars (estimated)	2,40,000	2,40,000	2,40,000	2,40,000	2,49,000	2,40,000	2,40,000	2,40,000	2.40,000	2.40.000	9.40.000	9.40.000	0.40 000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,090	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	3,50,000	2,50,000
Soldyabatty, Nowabgunge, Bhuddressur, and Chander- nagore,	18,919	21,125	15,875	20,531	17,181	9,750	7,994	6,012	6,975	12,625	13,525	10,387	12,956
Total	17,67,819	18,41,925	19,03,475	18,64,531	16,07,981	16,14,450	17,41,946	18,19,312	21,80,175	24,96,825	22,03,525	28,10,887	22,79,656
sides of the river. By Port Com- missioners' re- loaded By Canal returns	4,866 (on 3rd July 82.) 24,638 (let to 3rd July 82.) (1st to 3rd July 82.)	2,790 (on 5th August 82.) 77.377 (3rd to 5th August 82.) (3rd to 5th August 82.)	(on 2nd Sept. 82.) 56,903 (184 to 3rd Sept. 1882.) (184 to 3rd Sept. 1882.)	(on 5th Oct. 82.) 33,223 (and to 4th Oct. 82.) (and to 4th Uct. 82.)	5.402 (on 4th Nov. 82.) 22.309 (lat to 3rd Nov. 82.) 24.665 (lat to 3rd Nov. 82.)	4,408 (on 2hid Dec. 82.) 37,123 (1st to 3rd Dec. 82.) 18,887 (1st to 3rd Dec. 82.)	5,672 fon 8rd Jan. 8.) 86,690 (1st to 8rd Jan. 8.) 1,22,775 (1st to 8rd Jan. 83.) Jan. 785	780 (on 3rd Feb. 83.) 21.292 (1st to 3rd Feb. 83.) 1,5,534 (1st to 3rd Feb. 83.)	8,876 (on Srd March 83, 69,114 (1st to 3rd March 88,) 82,019 (1st to 3rd March 88,)	3,736 (on 4th April 83.) 88,286 (2nd to 4th April 83.) 75,232 (2nd to 4th April 83.)	2,222 (om 3rd May 83,) 25,109 (1st to 3rd May 83,) 23,441 (1st to 3rd May 83,)	1,526 (on 4th June 83.) 23,192 (1st to 3rd June 83.) 46,123 (1st to 3rd June 83.)	(on 3rd July 83.) July 83.) 40.763 (1st to 3rd July 83.) 40.207 (1st to 3rd July 83.)
Grand Total of Stocks	18,46,696	19,76,273	20,26,450	19,40,215	16,59,867	16,74,868	19,06,991	19,56,918	23,33,184	26,14,089	22,53,297	24,62,227	25,72,037
Probable stock available for exportation by sea.	S lakhs.	9‡ Iakhs.	9f lakhs,	9 lakhs.	6 lakhs.	6k lakhs	84 lakhs.	9 lakhs.	19# lakhs	15è lakhs.	12 lakhs.	14 lakbs.	123 Jakhs.

Statistical Department, The 7th July 1883.

Colman Macaulax, Secy. to the Govt, of Bengal.

PRICES CURRENT of Food-grains, Firewood, and Salt in the

RETAIL SALE :- QUANTITIES PER RUPER BY

		v	VHRAT.		,	BARLET	ı.	Ri	ов, вва	rsor	Ri	CR, COM	mon.	BULE	ush Mr Boo, Ba	LLRT-	GRBA CHOL	T MILI	URT-
Number,	DISTRICTS.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return
	BENGAL.						14									F			
W	estern Dietricts.	S. Ch	S. Ch.	18 Ch.	S. Ch.	S. Ch	s. Ch	18. Ch	.8. Ch.	8. Ch.	S. C	. s. c)	. 18. Ch	. S. Ch.	N. Ch.	S. Ch.	S. Ch.	S. Ch	(8.C)
		A	,									1			1	7.2			
1	Burdwan	2	15 8	14 0	20 0	30 0	40 0	18 12	19 0	21 5	23 13	24 0	24 0		-	1	****		**
9	Bankoora	18 12	14 0	13 12	19 0	19 0	17 0	18 8	18 12	28 0	24 0	24 0	30 0				-	***	
8	Beerbhoom	15 0	15 12	14 0				18 0	16 8	21 0	22 8	21 0	28 0						
4	Midnapore	14 0	14 0	14 0	16 0	17 0		18 0	18 0	20 0	24 0	24 0	26 0					***	
6	Hooghly	13 E	13 8	18 0				10 0	10 0	10 0	18 8	18 8	20 0					-	
MI 1	Howrab	13 4	18 0	13 0				13 4	14 8	16 0	19 8	20 0	20 0						
	lentral Districts.	14 0		114 0	100 0	10 0	100 0	110	10.5	10 0	16 0	116 0	120 0	20 0	20 0 1				
	Calcutta	F		14 0	16 0	16 0				10 0			17 0			**			20 (
8	24-Pergunnaha	G	10 0	12 0	16 0	10 0	21 4	100		10 0	10 1.		1,0			***	***	130	20 (
7	Nuddea	14 8 H	14 8	14 8		22 15	26 0	15 4	15 4	17 4	16 13	17 4	20 0			•			
8	Khoolua						-	17 0	17 0	16 0	25 0	25 0	22 0		""			•••	
	Jessore	I 14 8	14 8	16 0				16 0	16 0	18 12	22 19	22 12	24 8				4	-	
10	Moorshedabad	15 0	17 0	16 0			1	15 (16 0	17 12	19 0	19 0	25 0			. 1			
11	Dinagepore	13 8	11 0	13 0		11 0	16 0		18 0	24 0	19 8						***		
12	Rajsbabye		16 8	13 8 18 0	}30 0	30 0	46 12	13 to	8 13 8 to 16 0	18 0 to 18 12	17 4 to 18 0	17 4 to 18 0	21 12 to 24 12	}				•	
18	Rungpore	M 11 7	11 7	16 0				13 5	13 5	16 0	17 8	17 3	20 0						
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16	Pubna	19 8	19 8	18 12		1		8 0	8 0	10 0	19 8	17 4	24 0						
16	Darjeeling	8 0	8 0	8 0	8 0	8 0	8 0	4 0	5 0	5 0	8 0	9 0	13 0						7.
17	Julpigoree	10 o	10 0	9 0	20 0	20 0	20 0	11 8	13 4	16 0	16 0	18 0	24 0	***					
E	astern Districts.										Paris.				- Capi		TOX S		
18	Dacca	12 4	14 8	12 4	18 12	10 0	32 0	15 8	15 12	22 0	19 4	19 4	26 12	19 0					
		R		7.1							200								
19	Furreedpore		20 0	22 0	30 U	30 0	35 0	16 0	16 0	22 0	18 0	18 0	28 0	••					
20	Backergunge	8	-		-		7	19 0	19 0	20 0	21 0	21 0	24 0				-		
21	Mymensingh	11 8	19 0	11 8		****		16 0	13 0	22 8	17 8	17 8	29 0				••		

A In the sub-divisions retail prices of salt are as follow:—Cuina 13½ seers, Cutwa 11 seers, and Raneegunge 13 seers.

B. Retail price of salt at Raipore 11 seers, Sonamukhi 12 seers, and Mejia, Bisheupore, Indas and Kotulpore 13 seers.

In the interior retail prices of salt range from 3 to 13 seers.

In the sub-divisions retail prices of salt are as follow:—Chattal 12½ seers, and Tumlo.k and Contai 11 seers.

In the sub-divisions retail prices of salt are as follow:—Serampore 13½ seers and Jehanabad 13½ seers.

In the sub-divisions retail prices of salt are as follow:—Baraset and Bussiriat 13 seers, Diamond Harbour 10½ seers, Barract pere 12½ seers, and Dum-Dum 12 seers.

G. In the sub-divisions retail prices of salt are as follow:—Kooshtea 12½ seers, Meherpore 12 seers, Chooadanga 12½ seers, and Ranaghat 13 seers.

H. In the sub-divisions retail prices of salt are as follow:—Satkhira and nagirhat 11 seers.

In the sub-divisions retail prices of salt are as follow:—Jheuida, Magura and Naraii 12 seers, and Bongong 13 seers.

J. In the sub-divisions retail prices of salt are as follow:—Lalbagh 11 seers, Jungypore 10 seers, and Kandi 11½ seers.

THE SEER OF 80 TOLAHS.

RAGI	OR M OR M	URWA	MATZ	OR I	
Present return.	Next preceding retorn.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

S. Ch.	S. Cb.	S. Ch.	S Cb.	S. Ch.	S. Ch.
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		No. 11	999		Access to
v 159	GRAM		F	RBWO	on.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return

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8.	Ch.	8.	Ch:	S.	Ch	19.	Ch	8.	Ch	S.	Ch
22	0	21	0	23	8	120	0	120	0	120	0
18	0	18	8	20	0	320	0	320	0	820	0
21	0	21	0	23	8	160	0	200	0	160	0
16	0	16	0	19	0	155	0	155	0	160	0
17	0	17	0	21	0	120	0	120	0	120	0
16	9	17	0	20	0	80	0	80	0	80	0
17	12	17	12	23	0	90	0	90	0	90	0
18	12	16	0	18	8	90	0	80	0	80	0
20	0	20	0	22	0		. 4	- 4			100
16	0	16	0	12	0	180	0	180	0	160	0
20	0	20	0	18	0	120	0	120	O	120	0
23	0	27	0	25	0	120	0	120	0	120	0
17	8	17	8	17	0	160	0	160	0	160	0
21	0	21	0	24	12	240	0	240	0	240	0
16	0	16	0	15	0	110	0	110	0	135	0
15	12	15	12	18	12	60	0	67	8	67	8
17	8	18	0	20	0	200	0	200	0	200	0
8	0	8	0	9	0	128	0	128	0	160	0
16	0	14	0	16	0	128	0	128	0	128	0

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Districts of Bengal for the Fortnight ending 30th June 1883.

		OF 40 SEERS	PER MAUND		A	VERA	E W	AGES	PER M	ONTH			
SALT.		SALT.		AGE	LE-BOD ICULTU ABOUR	TRAL		в ов Н киврв	Iorss-	CART	MON M PENTER ACESM	, on	
Next preceding return. Ourresponding return of last year	i i	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year,	districts.

4	2						14		18																											Western Districts.
		Ch	S.	CI	. 8	CI	1.1	R.	٨.	P.	R		. P.	1	R.	۸.	P.	S.	CI	1. 8.	CI	1. 8	. CI	h. R	8.A.E	Re	.A.P	Rs	A.P	Rs.	A.	Re.	A.,1	Re.	A.)	" color a Districte.
					1:			3	1	0	8	3 1	. 8		2	13	0	7	8	9	6	1 1	9 6	3	6	В	6 8	6	8	13 1	0	10 to		to	21	Burdwan.
	0	0	12	. 0	1:	1		8	8	6	8	1	3 6		3	4	of	6	to	6	to		to to		4 to		to	4 t	8	7 to	8	7 to	8	7 8 to	3	Bankoora.
	10	0	-	8 (3	12	6	8	3 10) 8		8	4		. 34	0				4 (8	6 5	8	10	0	12		9		Beerbhoom.
1933		0	95	3 (3 8	-	2	14	0	2	1			3	0	0	6	-1-6	5 5	10		5 18	3	6	0 5	8	5	0{	7 8 to 10 (}	7 8	13	6 9 to 7 8	8	Midnapore.
1	3	9	13	8	11	3 9		2	1	4 0	2	1	. 0		2	14	0	1	•••			1	•••		•••		•••									Hooghly.
1	3	0	13	1 0	118	3 0	1	3	0	0	8	3 (0	1	2	14	0	7	8	7	8	7	7 8	3	6	8 6	8	6	8	14	0	14	0	14	0	Howrab,
			12.2	HIF 2											9	8	0	15		17.6		110			,		* 0	N #	0	12		19	0 12		0	Central Districts
200G			10		14				12	0			. 0	1	-			10		1		1		1.		1	, ,	1	U	12	0	12	1	1		Calcutta.
1	13	5	13	5	14	8		2	14	0	2	14	. 0	1	20	12	0	1	•••	-	***	T	***	+	***		•••		••					***		24-Pergunuaha.
	11	10	11	10	1 15	13	à	8	0	0	8	1	11		2	12	1	8		100			3 0		6 (1	0		0		0 1	5	0 1	0 0 to 2 0	5	Nuddea,
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	10	12	11	. 0	11	8		8	4	0	8	3 4	0		3	2	0	7	8	7	8	7	8	6	0	6	0	6	0	{ 13 15	0	to to	100	15	0	Jessore.
	LO	0	12	1 0	119	8					1 8	1	. 0		3	2	0	1 5	0	5	0	5	0		5 (5	0	5	0	7	8	7	8	7	8	Moorshedabad.
,	1	8	11	. 8	15	0		8	7	0	3	1 7	0		3	5	0		8 0 to	7	to 8	7	to 8		5 0 to 8 0	8	to	8		20 to	0 2	to	0 2	8 0 0 0	5	Dinagepore.
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	8	0	8	0	8	0		4	8	0	4	8	0		4	8	0	1	**	1		1		1		100	.	***	- 1	(15			1	0 0	4	Darjeenug.
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				K		HUC.	A					S																								Eastern Districts.
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18		0	13	0	10	9		2 1	11	0	2	11	0		3 1	1	200	7	300	7	H	65	8	6	0	6	0	8 (1	15 (15	0	15	0)	В	ackergunge.
12		0	12	4	12	8		3	4	0	8	4	0		8	2	· • · · · · · · · · · · · · · · · · · ·	{8 0	-	8 9	0	to	0}	6	0	6	0	6 ()	to 30 0	1	0	to	1	M	ymeusingh.

K Retail price of salt at Raigunge 11½ seers and Nitpore 12 seers.

L In Nattore and Nowgong retail price of salt 12 seers.

M In the seb-divisions retail price of salt are as follow:—Gaibanda 10 seers, Nilphamari 12 seers.

N In Scraigunge retail price of salt at 2 seers.

O Retail price of salt at Kurseong 8 seers and Silligoree 10 seers.

P Retail price of salt at Fallacotta in Alipore sub-division 10 seers.

In the sub-divisions retail prices of salt are as follow:—Manickgunge 11 seers, Moonsheegunge 10 seers 10½ chittacks, and Naraingange 13½ seers.

In the sub-divisions retail prices of salt are as follow:—Goalundo 10½ seers, Madaripore 12 seers, Bhanga 11 seers, and Gopalgunge 12½ seers.

In the sub-divisions retail prices of salt are as follow:—Paunakhali 10g seers, Perosepore 11 seers, and Bhola 9 seers.

T in the sub-divisions retail prices of salt are as follow:—Kishoregunge 10½ seers, Attea 12 seers, Jamalpore 11 seers, and Netrokona 12½ seers.

PRICES-CURRENT of Food-grains, Firewood, and Salt in the

								1	V/2.3s						454.)	177	97			181	R	ET	AIL	SA	LE	:-QU	ANTIT	IES P	ER RI	TPEE 1	ву тн
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Number.	DISTRICTS		Present return.		Next preceding return.		Corresponding return of last vegr.		Present return.	1	Next preceding return.	Occupanting return	of last year.		Present return.		Next preceding return.	16	Corresponding return of last year.		Present return.		Next preceding return.		Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of, last year.	Present return.	Vext preceding return.	Corresponding return of last year.
R	setern Districts.	-((lone	lude	d.)							39			7														-		
	1	1	8. C	h. 5	8. C	h. S	. CI	n. 8	Ch	. S.	CI	h. S.	CI	8	. c	h. 8	O	h. 8	. c	h. 8	, с	h s	s. C	h. 18	8. CI	. s c	N. Ch	,s. cı	.,s. c	h.s. Ci	.,8. CI
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7	Gya .		X 20 8 Y	10		17		4	0	27	0	28	0	1									B 0		0 0	- 111					
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9	Durbhunga .	1	7 () 1	7 0	14	0	37	0	35	0	35	0	13	8	13	0	14	0	18	0	18	0	17	0						***
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	Maldah	17	0	17	8	16	0				•			14	0	16	0	16	0	16	.0	18	0	19	0			***			
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	CHOTA NAG	onti	er A	gen	cy.	1						ton.		100								1		1							
1	Hazareebagh	16	29	16	0	16	0	18	0	22	0	24	0	10	0	10	0	10	0	16	0	16	0	19	0						
-	Lobarduggs	16	0	17	0	18	0	22	0	22	0	26	0	18	0	18	0	22	0	22	0	22	0	25	0						
	Singbhoom	18	0	20	0	20	0	32	0	32	0	28	0	36	0	32	0	36	0	40	0	36	0	40	0						1-1-24 1-034 20-035
	Manbaoon	20.00	Z10 0	13	0	13	0	40						17	0	18	0	19	0	27	0	27	0	34	0				77777	1177 711	
ä	No.	1		1	-	-		***		***		***	-		5			-0			0	-1	0	0.7	0		of the			•••	**

In the interior retail prices of common rice vary from 31½ to 39½ scors.

U. Retail price of salt at Kumeriah 10 seors, and Hathazarce and Cox's Bazar 8 seers.

V. In the interior retail prices of salt range from 5 to 12½ seers.

W. In the sub-divisions retail prices of salt are as follow:—Brahmunberiah 12 seers and Chandpore 12½ seers.

X. In Nowada retail price of salt 10 seers.

X. In the sub-divisions the retail prices of salt are 10½ to 11 seers.

Z. In the sub-divisions retail prices of salt are as follow:—Madhubani 9 seers and Tajpore 12 seers.

ZI. In the interior retail prices of salt range from 9 to 12 seers.

Z2. In the sub-divisions retail prices of salt are as follow:—Sewan 11½ seers, and Gopalgunge 12 seers.

[·] CALCUTTA,
The 10th July 1883.

RAGI	or M	URWA	MATE	OR I	NDIAN-
Present ceturn. "	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

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	1.5	W 160	52 0	32 0	35 (
30 0	30 O	31 0	29 0	80 0	31 (
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		***	27 14	33 9	33 8
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GRA	м.	F	IREWO	00.
resent return.	Jorresponding return of last year.	Present return,	Next preceding return.	Corresponding return

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12	0	12	0	14	0						
12	12	13	14	17.	0	1.					Ä
						320	0	320	0	320	0
12	0	12	0	14	0					•	510 148

29	8	29	8	30	0	130	0	130	0	130	0
23	8	25	0	26	0	180	0	180	0	180	0
1	to o	15	28 1	30	0	120	0	110	0	120	0
24	0	25	0	25	0	160	0	160	0	130	0
23	0	25	0	25	0	140	0	140	0	140	0
26	0	27	0	28	0	140	0	160	0	160	0
27	0	28	0	30	0			***	N	***	3
25	13	26	4	31	8	126	0	126	0	126	0
24	0	24,	10	29	10	126	8	151	8	151	8
22	0	20	0	23	0	160	0	160	0	160	0
22	0	23	0	26	0	120	0	160	0	120	0
21	0	20	0	20	0	200	0	200	0	200	*
0.8	44			lan		90		90		100	0

17	1	18	6	22	5	80	0	80	0	160	0
18	6	18,	6	15	0	104	0	104	0	100	0
14	0	14	0	16	0	120	0	120	0	160	0

19	0	18	0	21	0	240	0	240	0	240	0
14	0	14	0	19	0	110	0	120	0	120	0
24	0	24	0	24	0	160	0	160	0	180	0
17.	0	17	0	17	0	120	0	120	0	120	0

AVERAGE WAGES PER MONTH

Districts of Bengal for the Fortnight ending 30th June 1883 .- (Concld.)

WHOLESALE PRICES PER MAUND

	Secret Val	0	F 40 SEERS.	A STATE OF	I Die Jeste	A TELE	GE WAGES	1 1516 7			
SALT.			SALT.		ABLE-BO AGRICULT LABOUR	URAL	SYCE OR H		CARPE	ON MASON, ENTER, OR ESMITH.	
Present return. Next preceding return.	Corresponding return of last year,	Present returu.	Next preceding return.	Corresponding return of last year,	Present return. Next preceding return.	Corresponding return of last year.	Present return.	Corresponding return of last year.	Present return.	Next preceding return. Corresponding return of last year,	DISTRICT».
The part of the			7.25	T-V-V-V-V	1-01	4 401 1	1		Re		iota.—(Concluded
. Ch. 8. Ch 8	S. Ch	Rs. A. P.	Rs. A. P.	The state of the s	Rs. A. Rs. A	Rs. A. R	Rs. A. Rs. A.	Rs. A.		A. Rs. A.	
6 0 9 0 1	13 0	4 0 0	4 0 0	2 14 0	$ \begin{cases} 7 & 8 & 7 & 8 \\ to & to \\ 11 & 4 & 9 & 6 \end{cases} $	to	6 0 7 0 to to 7 8 8 0	6 0 to 7 0	7 8 7 to 10 8 10	8 9 0 to to 0	} Chittagong.
0 0 10 0	11 0	8 6 0	3 6 0	8 2 0	Special of	4		371			Noakholly.
1 8 12 4	12 8	3 6 0	3 4 0	3 4 0	\$ to to	to	5 0 5 0 to to	5 0 to		to to	Tipperah.
6 4 6 1	10 0	6 0 0	6 0 0	3 8 0	(90 90	9 0 7	7 0 7 0	7 0	16 0 16	0 16 0	Chittagons Hi
1 0 11 0 1	10 0	3 4 0	3 4 0	3 6 0	7 8 7 8	7 8 6	6 0 6 8	6 8	13 0 14	0 14 0	Hill Tipperab
la al		2001			1	1	1	1	1	1 1	BEHAI
0 8 10 8	10 9	3 0 0	3 0 0	3 2 0	(2 8 2 8	2 8	3 0 3 0	3 0	6 0 6	0 6 0	Patna.
2 0 12 0 1	11 8		3 5 0	3 4 0	$\begin{cases} 2 & 8 & 2 & 8 \\ to & to \\ 3 & 0 & 3 & 0 \end{cases}$	3 0 1	to to 5 0	5 0	to 8	0 to	} dya.
2 8 12 8 1	18 0	3 1 0	3 1 0	8 0 0	4 0 4 0	4 0 3	5 0 5 0 to to	5 0 to 6 0		0 6 0 to 8 7 8	Shahabad.
0 10 0	11 0	3 10 0	3 10 0		8 to 3 8 to 5 0 4 0	3 8 1 to	6 0 6 0 3 8 3 0 to to 5 0 5 0	4 0 to	4 8 5	8 5 8 o to	Durbhunga.
8 11 8 1	12 8	3 6 0	3 6 0	3 2 0			5 0 5 0		10 0 7	0 10 0	Mozufferpore.
0 11 0 1	11 0	3 6 0	3 8 0	3 8 0	\$\\ \begin{pmatrix} 4 & 12 & 3 & 12 \\ \to & to & to \end{pmatrix}\$	3 n	4 0 4 0 to to	4 0 to	6 0 6 to	0 6 0	Saran.
0 11 8 1	10 8	3 10 0	3 6 0		6 0 5 10		6 0 6 0	6 0 4 0	10 0 10 6 0 8	0 8 0	Chumparun.
3 0 12 1 1	12 10	8 2 8	3 2 3	3 1 0	3 12 3 12	3 12	4 0 4 0	4 0	10 5 to 7 8 7	to to	Mongbyr.
10 12 10 1	12 10	3 0 6	3 3 1		\$4 0 4 0 to to	4 0 to	4 0 4 0 to to	4 0 to	6 0 6 to	0 6 0 to to	Bhagulpore.
		D48	OF THE PARTY	-	(5 0 5 0 (4 11 4 11	4 11	5 0 5 0 4 0 4 0	5 0 4 0	7 0 7	0 7 0	,
	8 0	3 4 0	3 7 0	8 0 0	to to 5 10	5 10	to 5 0	5 0	16 0 16	0 16 0	Purueah.
									1.		Maldah.
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100 A 100 A	19 0				(A)				(10 0 10	0 10 0	A LOUIS ROBERT POPULATION
2 8 0	13 0					1				CHOTA	Balasore, NAGPORE,
and the	COL.	641			- 4	11	1	1.	1 11	uth-Western	Frontier Agen
0 0 0 1	10 0	3 15 3	3 15 3	3 12 0	5 0 4 0	The second second	6 0 5 0	No. of the last			Hazareebagu
0 0 0	9 0	4 2 0	4 2 0	4 0 0	1 to to	\$3 12	to to	to 5 0	12 0 12	to to 0	Lobardugga.
8 0 8 0	8 0	4 0 0	4 0 0	4 7 0	\begin{cases} 3 & 0 & 3 & 0 \\ 4 & 8 & 4 & 8 \\ 3 & 0 & 3 & 0 \end{cases}	3 0	4 8 4 8	4 8 to 5 0	5 0 5 to 12 0 12	0 5 0 to to	Singbhot m.
0 8 10 0	11 0	8 9 0	3 7 0	8 12 0	4 11 3 12	4 11	467	1	200000	0 10 0	Manbhoom.

WHOLESALE PRICES-CURRENT of Food-grains, Firewood, and Salt in

						W	пв	AT.				N I			BA	RLI	EV.					R	ton	, nı	IST	80	RT.				Ri	OH,	CO	M M	OK.				USH MI	
Number.	MARTS		CONTRACTOR OF THE PARTY OF THE	Present return.			Next preceding return.			Corresponding return of last year.			Present return.			Nert preceding return.			Corresponding return of last year.			Present return.		N	vere breceung return.		Corresponding return	of last year.		Present return.			Next preceding return.	STATE STATES		of last year.		Present return.	Next preceding return.	Corresponding return of last year.
	n Control		R		. P.	R		Р.	R	۸.	P.	R.	۸.	P.	R	۸.	P.	R.	۸.	P.	R.	۸.	P.	R.	A. 1		R	A. P	. 1	2. A	P.	R	. Δ.	P.	R.	A.	P.	R.A.P	R.A.P.	R.A.
1	Calcutta		2	14	0	2	13	0	2	14	0	2	0	0	2	1	0	1	9	0	3	14	0	3 1	4	0	4	0 (5	8 8	0	2	8	0	2	0	0	3 0 0	2 0 0	.1
2	Serajgunge		1	13	0		,					4	0	0					•••		2	4	0									6								•
3	Daces -		3	2	0	2	13	0	3	2	0	2	0	0	1	14	0	1	3	0	2	10	0	2	8	0	1 1	2 (5	2	0	2	2	0	1	6	0	2 0 0		
4	Naraingun	ge		***									•••								2	3	0	2	4	0	1 1	0 (5	3 0	0	2	2	0	1	8	ò			
5	Chittagong		8	0	0	8	0	0	4	2	0	0									2	14	0	2 1	4	0	2	0 (5	0	0	1	12	0	1	8	0		-	
8	Patna		2	3	0	2	3	0	2	4	0	1	8	0	1	3	0	1	2	0	2	11	0	2 1	1	0	3	5 (0 5	2 0	0	2	0	0	1	12	0			
	Balasore		2	12	0	9	12	0	2	2	0										2	8	0	2 1	0	0	1	8 (0 1	1 5	0				1	4	0	**		
3	Pooree				1000					•••						•••										1			1	2 2	0	2	2	0	1	9	0			
	Cuttack		3	0	0	3	4	0	9	10	0										8	0	0	9 1	0	0	2	2 (,	1 10	0	1	9	0	1	6	0		1000	

CALCUTTA,
The 9th July 1883.

the undermentioned Marts of Bengal for the Fortnight ending 30th June 1883.

	T MILL UM, JO		RAG	er Min or M o Chri	URWA	MAIZI	OR IN	DIAN.		GRAM.		F	RHWOOD.		SALT.	
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year,	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present returo.	Next preceding return. Corresponding return of last year.	Present return.	Next preceding return. Corresponding return	MARTS,
R. a. p.	R.A.P.	R. A. P.	R. A. P	R.A.1	R.A.P.	R. A. P	R.A. P	R. A. P.	R.A.P	K. A. P.	R. A. P.	R. A. P.	R.A.P. R.A.1	R. A.	P. R.A.P. R.A.	р.
E.		1 80				1 8	1 9 0	1 10 0	2 4 0	2 4 0	1 13 0	0 6 8	0 6 3 0 6	3 2 12	0 2 12 0 2 10	O Calcutta.
	•								2 10 0			0 6 0		3 2	0	Serajgunge.
									2 4 0	2 12 0	1 13 0	0 5 0	0 6 0 0 6	0 3 4	0 3 2 0 2 15	O Dacca.
A COLOR									2 8 0	2 10 0	2 4 0	0 7 (0 7 0 0 7	0 8 0	0 3 2 0 2 14	0 Naraingung
•	-			· ···	-				3 0 0	8 0 0	2 8 0	0 5 8	0 53010	6 4 0	04 002 14	0 Chittagong
						1 3	0 1 3 0	1 20	1 50	1 5 0	1 4 0	0 6 0	0.5005	0 3 0	03 0 0 3 2	O Patna.
									2 12 0	2 12 0	2 6 0	0 5 4	0 5 4 0 4	0 4 8	05 003 2	O Balasore.
														2 12	0 2 12 0 2 12	o Pooree.
	0000		2 10	03 0	0 2 10 0				2 2 0	2 0 0	1 10 0	0 8 0	0 800-4	2 12	0 2 12 0 3 0	O Cutteck

Published for general information.

Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

					100	200			STATIC	N OBSE	ICV ATI	J.NS.	190				
1				At	R PRESS	URE.	WIN	D.				MPERATI	TRE.			ildity reek.	noon
DIST	RICT.	Representativ station.	70	Mean barometer height, 10 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direc-	Mean wind velo- city miles per- day.	Highest during week.	Lowest during week.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily tem- perature of week.	Variation from normal mean of week.	Mean 10 A. M. temperature.	Average humidity at 10 A. M. for week.	Average cloud amount
100000		Gopalpore		29.590	29.640	20	s	271	83.6	76.8	80'7	78'5	79.6		80.4	85	8
Pooree		False Point		29.585	20.606	-027	NW	343	89.2	72'1	86.9	78.2	81.7	-1.3	82'8	80	
Cuttack		Cuttack		29.533	29'614	-007	w	120	93'4	76'3	87.6	78'1	82.9	-1.3	83.2	70	
Balasore		Balasore		29.539	29'597		NNW	117	89*4	76.2	86.8	77.5	181.8	7	83.3	84	
South-West	Midnapore)	Samuel Yoland		29.587	29.012	-016	Variable	271	90.7	73.0	88'4	78'1	83.3	-0.0	85.2	78	
South 24-Pe	rgunnahs	Saugor Island	***	20 001		010	Variation					256					*
Midnapore	ne m	Midnapore		29.471		-	NW	9	91.2	73.8	87'9	76.6	82.0	-	82.8	80	
24-Pergunns	bs)			14						Harrier .			CONSTRUCT	10.00	100		
Howrah	}	Calcutta		20.286	29.607	-014	SE	161	90.2	71.5	87.0	76'8	81.9	-1.7	84.0	82	ME.
Hooghly)		-											- +1		News	1
Burdwan		Burdwan	***	29.521	29.621	+015	Variable	120	92.6	78'4	89.1	79.2	84'2	-0.9	84.8	79	
Bankoora)		13	(a)	200		1					HI ST				The same of	100
Beerbhoom		Ranigunj	***	29-268	7	-	NE	- 6	01.0	76'3	87'7	77*9	82'8	-	86.3	76	
West Burdy	ran				20.70		200		Deca	-	72-1	1		7000			
Moorshedab	ad	Berhampore	200	29.573	29:841	+025	ENE	155'9	92.7	76.9	88'5	78:4	83.5	-1.7	84'4	83	920
Nuddea					1 400	11.7								12.7			
Jessore	5	Jessore		29.604	29.639	+003	- Variable	154'5	92.4	78.2	88.8	78'9	83.9	0.4	85'4	82	
Khoolna	J												- 10	- 19			
Chittagong		Chittagong	***	29.596	29.685	+010	SE	144	88.5	75.5	84'0	76.2	80.3	-1.7	83.0	80	
Chittagong	Hill Tracts	Demagri				*	7 (50)		ry not re					10.00			
Backergunj		Barrisal					2700		mmeneed		ly.		110	CTE	C 4000000		
Noakholly		Noakholly	***			1	100		not comn					- >			
Furreedpore		Furreedpore	100			WATE !	TRESTANTO		mmenced		2000		0011				
Dacea		Dacea		29-622	29.658	+016	SE	117	89'8	76.2	86.5	:7 '8	82.1	-1.6	85'4	80	1
Commillah		Commiliah		29.628	29.662	-	SE	9	85'6	74'3	83'8	75.8	79'8		83.8	78	
Mymensing		Mymensingh	**	29.636	-	_	ESE	999	92.3	76 0	88.6	77'8	83.2	100	85:0	75	100
Bogra and F	uban	Serajgunj	***	dovedo	29.642	_	W - 1	319	y not com	75.5 1	91.5	79.2	85'4	1 1	85.1	83	
Rajshahye		Rampore Beaul		29'568	20 042	-	SE	168	92.6	77.1	89'5	79.8	84.0	100	85.8	78	2,13
Dinngepore		Dinagepore	200			100	SE	137	92.8	76'5	91'2	78:1	115-31-3		86'3	78	137
Rungpore		Rungpore	***	29.618		1		-01	0.0	70.0	21.2	10.1	84'7		00 8	10	200
Julpigoree	}	Julpigoree	3	29'324		-	P	127	95.9	76.1	90:3	77'8	841	-	82.5	78	
Cooch Behar Darjeeling B		Darjeeling	:	22.934	_	1	Е	93	69.1	56.1	66.0	56-7	61.6	_	63'2	93	
Purneah		an Journal			1 9 1			3.5	3		No They be	ALC: UN	- 104	Series and	1-10-1		H
North Bhag	ulnore}	Purneah		29.518	29'648	+027	Calm	55	96.2	76.8	91.1	78 9	85.1	+04	85.2	78	
Mozufferpore					1.20					15301	-		01-16	or and			
Durbhunga	}	Durbhunga	***	29:478	29:644	+046	ESE	134	93'4	78.5	89'8	80.0	85'1	+0.6	86'1	80	,
Chumparun		Motihari	***	-	2	-	ESE	-	941	2	87'4	9	9		87'92	70	
Sarun	*** ***	Chupra		29:423	_	-	E	69	95.2	74'0	91.9	78'5	85.2	-	86'6	98	
	(Dehree		29-28 L	29.632	-	Variable	9	98'4	68'0	89.0	70'1	79.5	***	86'3	73	
Shahabad	{	Buxar		29:384	-		NW	226	98.9	76'2	94.2	79.2	83.7	+ 1	88'9	62	13
Gya		Gya		29:239	29.613	+016	Variable	103	99*2	71.8	94'5	74'0	84'2	-0.2	88'0	68	
Patna		Bankipore		29:456	29.639	+050	Variable	. 162	98 0	78'7	93.2	80'3	86.8	1 +0.6	849	75	
South Bhagu	lpore	Di		00.40	00.000	DITT.	Chilm	740	0.00		00.4					171	2 1
Monghyr	}	Bhagulpore	*** 5	29.485	29:629	-	Calm	120	91:9	77.0	80.0	78'5	84.5	- 7	86.9	76	
Sonthal Perg	-	Doomka		1	1777		Observ	vatory e	ommence	a, 5th Ju	ıy.			104	2 - 2 - 1 - 1 - 2 - 2	Sellen.	
Hazaribagh		Hazaribagh		27.638	29-625	+034	NW	281	89 0	70.7	85'7	72.2	79'0	-1.1	80'3	76	
Lohardugga				100	200		- 21	-			i postalija Supotablija	15.75	V 45 (200)				1
Manbhoom	}	Ranchee			- 1		Obser	rentory	not com n	ienced.	Trong State	TOTAL					1
Singhbhoom		Chybassa						dit	to.		1 M. B		S IVOR			948 S	100

Explanation of Summary.—The normal means of air pressure and temperature are the arithmetical averages or means of the readings during the same The humidity of the atmosphere is expressed as a percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky vations, rainfall," the normal means are the numerical means or averages of the rainfall in that district determined from the returns sent in by the sub-division that district, (i.e.) the total rainfall at the sub-divisional stations in the district sending in returns divided by the number of stations, A rainy (a) Observations commenced on the 1st July.

for the week ending 6th July 1883.

-		A Company of the Company			DISTRICT O	BSERVATI	ONS.						A STANLAR OF THE STAN
a		1-1			RA	INPALL.					7.7		
t wee	10	week.		e 1st of mont	th.	Sinc	e 15th May.		days reek.	mber	Representative	re	DISTRICT.
Rainfall of week observing station	Normal mean for district.	Average for district.	Mean for district.	Normal mean,	Variation.	Mean for district.	Normal mean.	Variation.	Average number of rainy days during the week,	Normal number of rainy days of week.		1	
7:95		SALE IN COLUMN									Gopalpore)	76. 0
4.28	2.22	6.03	21.39	11:03	+10*36	22.01	12.61	+9.43	4'5	4.3	False Point	}	Pooree
5.29	2.79	4'82	15.86	11:14	+4.72	19.66	12.96	+6.70	3.2	3.8	Cuttnek	***	Cuttack
6/1	2.88	2.00	19:42	9:42	+10.00	20.77	11.81	+8.96	5.6	4.0	Balasore	***	Balasore
200	0.00	5.36	14:01	18:10	+2.02	70.45	14:04	1.2101		4.0	Sames Taland	5	South-West Midnapore
2.99	2.80	0 00	14:21	12.19	+2 02	16.47	14.84	+1.63	5.3	4.2	Saugor Island		South 24-Pergunnahs
5:14	2.65	2.67	9.22	12.07	-2.85	9.72	14.20	-4·78	4.7	3.9	Midnapore		Midnapore
- 3	1				- 10							1	24-Pergunnahs
4'43	2.32	3.04	13.05	11.95	+1.10	14.09	15.02	-0.83	5.2	4.9	Calcutta	{	Howrah
		11 -1		İ	*	1				-		1	Hooghly
1.07	2:10	1'04	9.52	10.83	-1.67	13.62	13.17	+0'45	4'3	3.8	Burdwan	***	Burdwan
1	2	Indian in	Marie -									1	Bankoora
180	2.05	2.39	14.83	12.81	+2.02	17.53	14.44	+3'09	4.6	4.2	Ranigunj		Beerbhoom
1		RELEASE OF										(West Burdwan
1.50	*2.76	1.07	10.22	12.02	-1'45	14'79	14.47	+0.55	4.3	4'2	Berhampore	***	Moorshedahad
	2:45	1 58	9'31	12.55	-3'24	12.70	16.00	-3.30	3.0	4.0	*****		Nuddea
2:22	2'48	2.59	10.95	14'98	-4.03	18:32	18:59	-5.27	4.8	4.7	Jessore	5	Jessore
-1/13												(Khoolua
5:39	HIS-SHOW!	4.05	46'44	34.15	+12.32	54*56	39.48	+15.08	6.2	2.6	Chittagong		Chittagong
	2:86	1'34	20.31	22.04	-1.73	21.87	26.08	-4.51	3.2	2.6	Demagri		Chittagong Hill Tracts
Sept of	3.86	3.16	17.99	24.20	-6.21	20.72	28.60	-7.48	5.5	5.9	Barrisal	.040	Backergunj
THE STATE	4,30	1:72	42.06	31'88	+10.18	44.89	37.73	+7.16	8.5	5:8	Noakholly	***	Noakholly
	5.68	1.16	8'43	15'38	6'95	12.32	19:94	-7.62	3.3	4.8	Furreedpere	***	Furreedpore
1.18	2:56	0.85	8'46	15.74	-7.28	11.74	20:44	-8.70	4.0	4'6	Dacca	***	Dacca
2.09	2:86	5.16	18:37	20:36	-1.59	23.30	25.06	-1.76	4.2	5.0	Commillah	44.7	Commillah
0.12	3.03	0.04	9.70	19.61	-9.91	14.20	24'87	-10.67	2.3	4:6	Mymensingh	49.5	Mymensingh
	2.64	0.74	9.45	14.73	-5 23	14'63	18'75	-4.12	2.0	4:0	Serajgunj	***	Bogra and Pubna
0.92	3:11	1.03	9.25	13.24	-4.59	13.43	16.31	-2.88	3.7	4'2	Rampore Beau	leah	Rajshahye
0.38	A	0.44	11'24	18.57	-7:33	14.77	21.64	-6.87	5.0	4.1	Dinagepore		Dinagepore
0.06	8.74	,0.71	11.67	24.00	-10.53	17.06	82*09	-15.03	1.3	3.7	Rungpore	***	Rungpore
1'86	4'21	0.65	25.68	36.58	-10.28	32.03	45 96	-13-93	1.3	4.7	Julpigoree	{	Julpigoreo
1.00						00 00		20.00				1	Cooch Behar
4196	10 19		0244	45*61			54.40			6.0	Darjeeling	***	Darjeeling Hill Districts
-	3'51	1.68	24.61	14'34	+10°27	25.82	16.64	+9.18	2.8	41	Purneah	5	Purneah
	1				4		Letter Cal Pri			100	- Printerior	(North Bhagulpore
0.33	2.81	1.06	. 16:17	9.83	+6'35	18.01	11-00	+7'01	2.2	3.3	Durbhungs	5	Mozufferpore
		A Bear	0.000	O control					-		4	,	Durbhunga
4'42		8.66	8.42	10.03	-2 51	10.03	12.02	-2.03	3.0	3.3	Motihari	***	
8'84	MATERIAL STATE	2'74	12:47	8'82	+3.65	12.60	9.72	+2.88	3.0	3.6	Chupra	***	Sarun
241	No. of the Parties of the	1.00	64-6-24-	E Phillip				all the	mantel / 60	apply you	Dehree	}	Shahabad
1.03	4 10110200	1:75	9.10	7:27	• +1.83	9.61	7.79	+1'82	3.3	3.9	Buxar		
2:00	New Alline	2'49	13.07	7.96	+5*11	13.79	8.53	+4:57	3.8	3.2	Gya	***	TO AND SUPPLIES TO SEE SEE
0.76	2.58	1:51	18.08	8.07	+9.41	18:14	9.97	+817	3.3	7.9	Bankipore	***	
0.28	2.88	0.72	11.60	9.26	+2'34	12.49	10.84	+1.85	1.6	4.8	Bhagulpore	{	South Bhagulpore
										110	New Documb		
Silver	2.06	1.58	12:43	11.92	+0.21	14 37	13-63	+0.75	3.7	4'3	Nya Doomka Hazaribash	110	Southal Pergunnahs
4'46	2:94	8.59	10.25	10.82	-0.22	10:93	12.33	-1:40	2.0	4.9	Hazaribagh		Hazaribagh
For San	3'45	4'40	14/96	9.99	+4'07	16.54	11'36	+518	5.3	4.2	Ranchee	}	Lohardugga
1955		Santa Ar	Sylven	13'94		12'71		BYNON A	6.0	4'9	Chyebassa		Singhbhoom

period for the past 12 years. The variations are negative when the mean for the week is less than the corresponding normal mean and positive when greater, by 10. The number denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head "district obsersional stations for the period in question during the past 2 years. The "means for the district" are the numerical averages of the ruinfall returns received day is one on which at least an hundredth of an inch fel'.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 6th of July 1883.

					R	AINFALL				To	tal.	1000			
Meteorological division,	District.	Station.	, 30th.	18t	2nd	3rd	ay, 4th	Ay, 5th	6th	days.	Jo .	Total rainfall from 1st June to 6th July.	Average total rain- fall from 1st June to	Total rain- full since 15th May,	from 15t May to
			Saturday, June.	Sunday, July.	Monday, July.	Tuesday, July.	Wednesday.	Thursday,	Friday, July.	Number rainy days.	Rainfall week.	our sug.	6th July.		date,
RISBA	Pource	Peoree Khurdah Banpur False Point	2:25 1:90 3:88 1:10	0.02		0'08 0'20	0.08	4'28 4'14 1'90 0'89	0°88 0°70 2°20 3°36	4 5 4 5	7:64 6:92 8:18 5:49	23:93 24:24 15:66 23:46	9'62 11'31 11'10 12'10	24°28 24°89 16°68 24°91	10°3 13°0 12°2 14°2
	Cuttack	Jagatsingpore Cuttack Kendrapara	0°30 3°21 1°80 3°15				0.10	3°03 0°71 0°06 1°50	0°10 1°52 1°04 1°85	4 3 3 4	4°33 5°44 2°90 6°60	25°83 15°72 16°58	8:74 12:28 10:32 13:20	\$0°21 18°12 20°71	10.5 13.6 15.0 15.2
	Balasore	Chandbali Bhuddruck Sorah Balasore Je lasore	5°50 3°85 2°60 5°64 0°15	0°20 0°12 0°17	0.51	0°20 0°12 0°30	0°50 0°16 0°30 0°76 0°5	2:20 1:90 0:90 0:4:1 0:30 0:99	0°81 0°30 0°38	4 4 6 7	6:40 6:52 4:48 7:70	22.95 19.44 15.99 -19.75	8°29 10°82 7°67 9°29 8°75 11°69	30°08 21°30 19°72 23°43	10°6 11°9 10°8 10°8
OUTH-WEST BENGAL.	Midnapore	Contai Saug r Island Tumlook Midnapore Ghattal	0.72 0.36 0.80 1.84 1.21	0.02	0.32	0°15 2°89 1°08 0°90 0°80	0 11 8 82 0 60 0 24 0 22	0.68 0.18 0.08 0.03 0.26	1'01 0'60 0'07	6 4 8 6 5	5 76 5 44 2 30 3 16 2 56	15'61 17'22 9'00 9'18 9'50	12:05 12:19 10:53 11:75 13:93	19:94 18:64 9:00 9:54 9:73	14°3 15°0 18°1 16°3
	24 Pergunnahs	Diamond Har- bour, Alipore Jail	0.89	0.10		0.81	0.78 2.56	1°55 0°62	0°74 0°16	6	4'19 3'21	9'79 12'83 12'80	12.43 12.56 12.94	10°83 13°25 13°93	15'1
		Barrackpore Dum-Dum Baraset Buseerhat	0°70 0°89 0°95 1°59	0°05 0°96 0°29	0.04	0.60	0'92 4'25 1'68 8'29	0.18 0.85 0.05 0.10	0°30 0°16 0°09 0°17	- 5 6 5 6	6°57 4°50 5°56	14°#7 13 16 17°82	12:12 11:69 12:21	15'50 14'39 19'52	15.4 15.4 14.8 16.4
	Howrah	Howrah Mohesreka	0°62 0°59	0.11	90'06	0°33 1°25	1.77 0.81	0.83	0°22 0°23	7	3.88 3.88	11.84	11.68	12'60 12'25	14.8
	Hooghly	Serampore Hooghly Jehanabad	0.84 0.21 0.83	0.02	0.12	0:47 0:23 0:69	0.85	0.27	0°14 0°27 0°38	7 6 4	2:79 2:91 2:43	12:81 10:20 11:42 9:31	11.72 10.94 12.27	13/67 13/28 12/42	14'0 13'8 15'4
	Burdwan	Cuina Burdwan Cutwa Raneegunge	0°53 0°76 0°65 0°20	0.11		0°33 0°01 0°25 2°20	0°29 0°04 0°33 0°20	0.07	0.35	5 5 3 4	0.82 0.82 0.83	12 27 6 19 21 58	10°75 10°46 11°55 9°08	12°87 15°23 12°78 25°48	12'8 13'2 13'4 10'8
	Bankoora	Bankoora Bishenpore Maliara Khatra	0°86 1°59 0°25 0°71	0.86	0.08 0.08	1°15 1°37 0°09	0.13	0.10	0°11 1°32 0°11 0°19	6 3 4 5	311 2:97 1:85 1:99	9'45 13'67 13'83 10 59	12:13 14:47 13:54 13:75	10.79 16.03 15.40 12.83	14°3 16°1 14°5 75°3
	Beerbhoom	Bh. Soory Hetam-ore	0.51	0.10	0.25 0.05	1.05 0.59	******	1.04 0.98	0.08	5 5	2:91 0 87	21'61 8'96	12 07 14 60	25°46 12°54	18.7 16.1
	Nuddea	Bonsong Ranaghat Kishnaghur Chooadanga	0'40 0'38 	0.20		1.26	1.20 0.50 0.26	0.22	0.05	8 6 1 3	2 15 2 74 0 26 0 89	10 90 13 19 3 89 4 90 9 74	13:45 11:36 11:67 12:13	13:03 15:30 6:46 8:19	16.8 11.5 18.6 16.7
	Khoolna	Meherpore Kooshtea Satkira Bagirhat	0°22 0 64 0°82 0°68	0.51	0.09	0.08	0.81 0.16	0.90	0.11	2 3 6	1°34 1°33 6°67	16.72	12:46 14:23 14:75 17:56	14.76 18.32 20.58	18:1 18:1 18:0 21:4
	Jessore	Khoolna Narail Jessore	0°66 0°16 0°29	0.12	0.04	0.02	0°11 0°95 0°80	0°59 0°15 0°15	0.02	5 3 7 4	2.20 0.48 1.53 2.23	6.04 8.14 7.94	14.67 13.79 15.26 15.74	15'25 12'27 15'63 11'85	18°0 17°1 19°2 18°9
	Moorshedabad	Magoorah Kandi Rampore Haut	0.04	5·20 6·02		0.08	0.40	0 52	0.15	4 3 4	2°15 1°20 0°96	10'80 16'21	13°27 12°55 12°63	14°63 14°63 17°50	14%
		Berhampore Lalbagh Azimeunge Jungipore Lalgola	0.11 0.18 0.15	0°47 0°04 0°15 0°05	0.01	0°13 0°04 1°85 0°17	0°35 0°79 0°25 0°08 0°22	0.04	0.04	6 2 6 4 5	1°14 0°97 0°53 2°12 0°54	9 51 8 47 9 09 . 11 26 8 58	12°70 11°10 12°08 13°23 11°87	15'08 12'45 15'00 16'07 12'77	15'6 13'8 16'7
AST BENGAL	Chittagong	Cox's Bazar Chittagong	4'28 0'65	0.20	0.01	0°17 0°13	1'23	0.43 0.00	0.05	7 6	6.69 1.41	51'89 38 52	41'42 26 75	58°98 47°71	47. 31.7
	Chittagens Hill Tracts.	Rangamati Ruma Agartola	0 16 0 32 0 35	0.04	1'40 0'55	0°15 0°06 2°04	 '0'12		0.15	3 4 5	1.71 0.97 2.76	20°21 21°34 17°30	22°41 21'68 16'01	23'04 29 33 21'24	27°3 24°0 20°0
	Backergunge	Patunkhally Perozepore Burrisal Bhoin	1'85 1'99 2'95 1'67	6.08 0.10 0.06	0.00	0.02	0.50 0.20 0.18	0.30 1.19 0.30	0°20 0°09 0°04	5 6 6	3.40 3.91 3.44	20'50 17'53 13'60	27'09 20'35 19'85 28'59	23'06 18'79 18'21	33°0 23°0 24°2 33°1
	Noakholly	Noskholly Fenny	0:38 0:22	0.12		1.08 0.82	0.02	0.78	*****	5 2	2:40 1:04	38'42 42'82	81°57 82°19	43°57 45'88	37·1 38·2
	Purreedpore	Madsripore Furreedpore Goalundo	1.†5 0.61 0.40	0.09 0.50	****** *****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0°14 0°19 0°28	0.21 0.23	 	3 4 3	1:50 1:11 0:88	8.34 6'34 10 62	15:56 15:79 14:78	12:50 10:70 13:78	20°8 20°8 18°6
	Daces	Munshigunge Dacca Manickgunge	0°10 0°27	0.10 0.05 0.00		0.00	0.68 0.78 0.15	0°11 0°07 0°10 0°04			0.65	8:41 4:88 28:07	19'50 15 73 12'05 20'60	9:29 25:72	24% 20% 10% 25%
	Mymensingh	Comilla Chandpore Brahmunberia Kishoregunge	0.02	0.07		2°21 0°95 0°75	0°30 0°15	0.09	0.15		2°15 1°37	16.70 9.08	25.70 17.40	20°65 18°27	20°1 28°5 27°9
	a de la companya de l	Atia Mymensingh Jamalpore,	0.10	0.18		0.04	, ,	0.50	****** ******	1 1 4	0°22 0°06 0°47	9°09 9°50 8°84	16°33 21°03 17°17	15'70 14'00 11'33	20 v 24 t 21 t
	c	t dominion and		11100					92 10 15	OF THE SAME					

Exprenation ... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returnsure wanting, the corresponding spaces in the total rainfall columns are left blank.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 6th of July 1883—concluded.

			31.1		E	CAINFAL	le.		-	To	TAL.				
Meteorological division.	District.	Station.	Saturday, 30th June.	Sunday, 1st July.	Monday, 2nd July.	Tuesday, 3rd July.	Wednesday,	Thursday, 5th	Friday, 6th	Number of rainy days.	Rainfall of week.	Total rainfall from 1st to 6th July.	Average total rain- fall from 1st to 6th July.	Total rainfall since loth May.	Average rainfall from 15th May to date.
NORTH BENGAL	Pubna	Pubna Serajgunge	0°51 60°6	0.12			0.87 0.25			3 2	0.31 0.20	10°84 8°77	14'19. 13'02	13°98 16'47	18'00 17'0
	Bogra	Sherpore Nowkhilla Bogra Panchbibi	0.06	0.04		1'56	0°31 1°68 0°41	0.04	******	1 4 1	1°56 0°45 1°68 0°41	7.09 6.89 8.99 10.04	-14'87 15'32 17'87 14'69	9'72 9'31 11'96 12'61	20°65 18°75 22°65 18°47
19	Rajshahye	Benuleah Nattore	0.20 0.20	0.00			0:49 1:10	0.50	0°17 0°10	5 3	1.25 1.70	7.55 5.55	12:71 14:18	10°56 10°85	15°6
	Maldah	Maldah	0.08	0.05		0.03			my	3	0.13	9.73	13.75	12.01	15.7
	Dinagepore	Mohadebpore Churamon Raigunge Dinagepore	0.09 0.13		******		0.52	0.50 0.15	0.04 0.02	2 2 2	1°04 0°33 0°16 0°24	7.26 11.58 12.63 13.15	20°47 15°72 18°56 20°48	10°01 13°92 14°34 16°21	23.7 16.9 22.4 24.2
	Rungpore	Bhawanigunge Rungpore Kurigram Bagdogra	0.14		0.30	*****	1.40 0.04 0.82			3 1 1	1'84 0'04 0'95 Nil	17:78 10:32 16:08 17:89	18:20 23:74 25:33 32:28	23:35 17:27 23:67 23:14	23°0 3°12 83°2 41'1
Appropriate Service	Julpigoree	Julpigoree					0.36	1.46	0.02	3	1:89	35.74	83.97	43.13	40%
	Cooch Behar,,,	Dinhatta Cooch Behar Mickligunge Matabhanga		0.01			0°36 0°05 		0.03	3 1 1	0°40 0°05 Nil 0°76	13°97 25°54 26°26 33°96	34°32 41°94 33°46 37°63	24'00 35'13 31'75 41'31	45°6 50°3 44°0 45°8
14.	Darjeeling Hill.	Buxa Darjeeling	0°24 0°83	0.45	0.26	0:33	0.92	1.60 0.72					60°76 30°46		74°3 34°4
North Behar	Purneah	Kissengunge Arrareah Purneah				0.10		3.20 0.60 1.28	0°03 0°32 0°01	3 2 2	3.63 0.92 1.59	26°26 29°74 11°69	19.67 16.54 15.61	28'34 30'40 12'94	# 223 193 163
	North Bhagul- pore.	Maddapore Soopool	0.03	0.02		0.22		1.84 0.06	0.02	4 3	2:18 0:10	28.82 81.65	9°91 11°26	50°39 24 67	11 12
	Durbhunga	Tajpore Durbhuuga Madhubani		,,,,,,,		6.59	0.36	0°32 1°03	0.10	3 1 3	0.81 0.32 1.71	15.00 19.42 16.01	9°89 10°48 10°55	15.61 20.66 17.78	10° 11' 12'
	Mozufferpore	Sitamarhi Mozufferpore Hajipore,	0.02		******	0.03	0.70	1'34	0.79 0.42	2 3 3	2.04 0.87 0.27	9°36 £0°.11 16°24	10°38 9°34 8°78	10.05 21.69 16.31	11° 10°
	Chumparun	Motibari Bettish Gopalgunge Sewan Chuprah				1'50 0'62 0'04 0'32	0.10	2'42 2'05 0'09 1'35	0.88 2.90 0.35 1.37 2.30	3 4 2 3	4'80 5'27 0'90 1'50 3'97	9:98 10:01 5:20 9:08 15:84	9°86 11°57 11°40 10°03 7°61	11:71- 11:24 7:11 9:33 15:84	11. 12. 12. 11. 8.
BOUTH BEHAR	Shahabad	Buxar	0.03				0.06	0.50	1.27	4	1.28	9.50	6.61	9*41	7
The Person		Bhubooah Sasseram Arrah	0°10 0°23				6.67	0.60 0.62 0.62	0.39	4 2 4 2	3.71 - 0.90 1.91 0.67	8.00 9.23 12.29	7.68 7.13 7.65	3°90 10°12 12°85	8°7.4 8°
	Gya	Aurungabad Gya Nowadah Jehanabad	0.03	6,30	0.40	0.03 0.14 0.41	1.42 0.09	0°82 1°80 1°15 1°69	0°80 0°05 0°33	3 5 5	3.04 2.09 2.82 2.10	11'42 16'57 10'89 13'42	7°02 8°13 8°90 6°91	18:04 18:46 11:26 13:42	8° 9° 10° 8°
	Patna	Patna Dicapore Behar Barrh	0.08		0.18	0°10 1°79	0.01	0.22	0°17 0°20 0°64 1°83	4 3 3 3	0'82 1'30 2'56 1'35	15:59 12:35 28:61 15:74	9:23 8:83 8:45 8:18	15.74 12.40 28.61 15.79	10°
*	Monghyr	Begooserni Monshyr Jamui			******	0.63	0.08	0.16	1'14 0'82	2 1	1:30 0:11 0:32	20°05 8°93 7°05	8°43 9°55 9°10	22:00 10:25 7:17	9· 10
	South Bhagul- pore.	Bhagulpore Banka				0.13	0°11 1°65			1 2	0°11 1°78	14°64 7°35	8°76 10°45	15'52 7'55	10
	Southal Perguinahs,	Rajmehal Gosda Pakeur Nya Doomka Deeghur Jamtara	0'05 0'20 0'28 0'69 0'53	0'46 0'07 0'32	0.11	0°47 0°57 0°54 0°14 0°09	0.55 0.95 0.10	0.021	0.02	3 2 7 5	Nil 2'03 0'77 1'70 1'87 1'31	7'86 7'30 17'98 15'46 13'44 12'37	13'89 9'40 14'00 11'66 11'64 10'84	8 96 8 25 22 35 16 81 15 93 13 96	15° 10° 15° 13° 14°
PORE, NAG-	Hazaribagh	Pachamba Hazaribagh Semtagurh Mahudi Hills	0°12 0°49 0°43 0°22	0'18	0°50 0°69	0.04 2.10 2.20	0:05 0:04 0:63 3:03	1'51 1'10 0'22	0°30 0°63 0°21	5 7 4	1.01 5.04 2.37	8:95 11:61	10°99 9°81 12°71 9°72	9°51 13°15	120 121 111 141
	Lohardugga	Ranchi Palamow	1,12	0.88		2'04	1:11	1°80° 0°50	0°37 2°00	6	6.32 8.10	18 69 8 41	10°18 8°80	20°85 8°80	11.
	Singbhoom	Chyebassa	2:20		0.08	0.13	1.80	0.45	0.60	6	5.36	11.60	10'46	18.71	12
	Manbhoom	Purulia Gobindpore	0.04 0.58	0.85 0.85	0.11	3.40 0.00	1°79 0°84	0.58 0.58	0.08	7 5	6.65 1.24	19:88 8:55	10°63 10 78	21.21 20.08	117

Explanation - indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returns are left blank,

SUMMARY OF METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, 6TH JULY 1883.

At the commencement of the past week a cyclonic vortex, which had been forming for several days previously near the Sandheads, began to move to the westward. It crossed the Balasore coast a little before midnight of Friday, and advanced across the North Orissa Hills into the Central Provinces on Saturday morning, whence it drifted slowly across the head of the Peninsula to Guzerat, and finally disappeared near the coast of the Arabian Sea. Strong southerly winds blew across the Bengal coast on Saturday. They diminished in strength on Sunday, and were feeble on Monday. Temperature hence increased over the whole of the Province, and winds became light and variable in North Bengal and over nearly the whole or Behar.

In consequence of the weakness of the Bay of Bengal monsoon winds on Monday, westerly dry winds from the North-Western Provinces advanced down the Gangetic valley on that day, and were established for a short time on Tuesday over Chutia Nagpur and South Behar. Another cyclonic vortex began to form at the same time near the head of the Bay. Its existence was first indicated on Tuesday morning by the setting in of northerly winds at Saugor Island and Balasore. This cyclonic vortex turned out to be very much smaller and feebler than the vortex of the preceding week. It formed near the coast of the Sunderbuns, probably south of the Mutlah and near the Sandheads. It was stationary on Tuesday and Wednesday, and began to move slowly westwards on Thursday evening towards the Balasore coast, which it crossed on Saturday evening. Hence in every respect, except intensity, it was almost identical in its features and motion with the storm of the previous week. It gave moderately heavy rain to Orissa and the southern districts of South-West Bengal, and moderate rain to the southern districts of East Bengal. The indraught to this and the previous cyclonic vortex from North Bengal has been attended with diminished rainfall over the whole of Central Bengal. The rainfall in Nuddea, Furreedpore, Dacca, Mymensingh, Pubna, Bogra, Maldah, Rajshahye, and Rungpore has hence been unusually small in amount during the past week. Behar and Chutia Nagpur continue to receive satisfactory rain.

The variations from the normal of the elements of meteorological observation have as usual during periods of cyclonic disturbance been considerable and irregular. The mean pressure for the week is slightly below the average for stations in Orissa and the adjacent districts of South-West Bengal and above it elsewhere excepting Chittagong. The mean temperature of the week was below the average, except in South Behar. The average deficiency slightly exceeded 1° in Orissa, Bengal and Chutia Nagpur. The excess in the case of South Behar was mainly due to the high temperature which prevailed for a short time on Monday and Tuesday when dry westerly winds were blowing. High maximum temperatures were recorded at that time, the highest being 99.2° at Gya and 98.9° at Buxar. South-easterly winds have prevailed during the week in East Bengal, North Bengal and Behar. Winds have been variable in South-West Bengal, North Orissa, and Chutia Nagpur over which northerly winds of indraught to the cyclonic vortex continued from Tuesday

until Friday morning.

The following table gives a summary of the temperature and rainfall data of the past week for each of the seven meteorological divisions of the Province :-

			CEMPR	RATUR	Е.		-57-	27110		1	AINFA	Li.				1
	week.	week.	Avers	ge for	week.	ove (+) in week.		Of wee	k.	R	ainy di	ıys.	Since of mo		Since Maj	151h
METEOROLOGICAL DISTRICT.	Highest observed during	Lowest observed during	Of highest of each day.	of lawest of each day.	Of mean for each day.	Average mean of week above or below (-) normal mean w	Ауетаge.	Normal average.	Variation.	Average number fo week.	Normal sverage number for week.	Variation from week.	Average.	Normal average.	Avenge.	Normal average.
Orissa South-West Bengal East Bengal North Bengal North Behar South Behar Chutia Nagpur	93'4 92'7 92'8 94'6 99'2 96'2 89'0	72'1 71'2 74'3 75'5 68:0 74'0 70'7	85'4 88'2 85'7 90'6 92'2 90'1 85'7	77.7 77.9 77.0 78.4 76.4 79.3 72.2	81°5 83°1 81°4 84°5 84°3 85°1 79°0	-1:3 -1:1 -1:7 0 +0:5 -1:1	5:30 2:57 1:88 0:76 1:94 1:50 6:15	2'47 2'43 3'18 3 46 2'89 2'81 2'62	+2.83 +0.14 -1.30 -2.70 -0.95 -1.31 +1.53	4.7 4.6 4.1 2.0 2.8 3.1 5.3	4'0 4'4 5'1 4'5 3'6 4'0 4'8	+0°7 +0°2 -1°0 -2°3 -0°8 -0°1 +0°5	19°24 18°16 16°76 16°11 18°54 11°17 11°83	10'40 12'42 22'48 23'65 9'41 10'65 11'68	20.62	12'8' 15'13' 27'8' 29'4' 10'6' 12'0' 13'3'

The returns show that rain was very unequally distributed over the Province during the week. Orissa, the Midnapore, 24-Pergunnahs, Howrah, Hooghly, Jessore, and Khoolna districts of South-West Bengal, and Chutia Nagpur received abundant rain. It was deficient in every other part of the Province, excepting the Chumparun and Sarun districts of North Behar. The deficiency was most marked in North Bengal, where an average of only 22 per cent. of the normal rainfall was received. The following table shows the districts in which the deficiency was largest:—

Distri	ct.	Average rainfall of week.	Normal average of week.	Deficiency.	Ratio of actual to average rainfall.
Dacca		 0.89	2.56	1.67	34 per cent
Mymensing		 0.64	3.03	2.39	21 ,,
Bogra and Pubna		 0.74	2 64.	1.90	28 ,,
Rajsbahye		 1.03	3.11	2.08	36 .,
Dinagepore		 0.44	3.26	2.82	14 ,,
Julpigori		 0.62	4.21	3.59	15 ,,
Rungpore		 0.71	3.74	3.03	19 ,,

Saturday, 30th June.—Pressure had risen generally. The rise was very large in South-West Bengal, and more especially at Saugor Island. It had fallen only at Cuttack, Gya, and Hazaribagh, the fall being largest at the former station. These changes accompanied the westward motion of the cyclonic vortex which crossed the Balasore coast late in the evening of the 29th, and was at 10 a.m. of the 30th advancing across the North Orissa hills into the Central Provinces. The variations of the pressure from the normal were considerable, ranging from +07 at Dacca to -23" at Cuttack. Temperature was below the average over the whole province. The mean temperature of the past 24 hours was 7° in defect in East Bengal, 5° in Orissa, 4° in South-West Bengal, 1° in Behar, and 5° at Hazaribagh. Unusually strong winds were blowing at the head of the Bay and in South Bengal. Southerly winds were now established over the whole of South Bengal. Easterly winds continued in North Bengal and Behar. The cyclonic circulation in Orissa and the adjacent districts of Chutia Nagpur and South-West Bengal was indicated by the prevalence of southerly winds at False Point, south-easterly winds at Calcutta, easterly at Burdwan, north-easterly at Hazaribagh, and westerly at Cuttack. The air was very moist and skies were overcast in East and South-West Bengal, Orissa, and 'hutia Nagpur. The cyclonic disturbance gave general rain to East and South-West Bengal, Orissa, and Chutia Nagpur. The indraught to it continued to diminish very considerably the rainfall in North Bengal and Behar, where a few light local showers of no importance fell during the past 24 hours. The rainfall, due to the cyclone, was excessive in Orissa and the adjacent districts of South-West Bengal. Balasore received 5.64 inches, and Cox's Bazar 4.29 inches.

Sunday, 1st July.—Pressure increased briskly over the whole province during the past day. The rise of the barometer was greatest at Cuttack. The depression had moved westward into the Central Provinces, and the centre at 10 a.m. was near Seoni. Pressure was above the normal of the day by amounts ranging from '01" at Cuttack to '1" at Durbhanga. Temperature was increasing with the diminution of cloud. The mean temperature of the past 24 hours was 3½° below the average in Orissa, South-West and East Bengal. Moderately sitong monsoon winds were blowing this morning across the Bengal coast. The direction of the air motion was determined by the cyclonic vortex in the northern districts of the Central Provinces. Winds were south-easterly in East and South-West Bengal, and easterly in North Bengal, Behar, and Chutia Nagpur. The indraught to the vortex in the Central Provinces diminished considerably the amount of moisture in the air over Bengal. The sky was overcast at two stations in Behar, and was partially clouded over the remainder of the province. Light local showers of little importance fell in Orissa, South-West Bengal, East Bengal, and Chutia Nagpur. Little or no rain occurred in North Bengal or Behar.

Bengal, and Chutia Nagpur. Little or no rain occurred in North Bengal or Behar.

Monday, 2nd July.—The barometer had risen in Orissa, Chutia Nagpur and South Behar during the previous 24 hours. It fell in other districts. The changes were nowhere large. Pressure was above the normal of the day at all stations, by amounts ranging from '03" at Saugor Island, to '08" at Cuttack and Durbhanga. Temperature was increasing, and was above the average, except in East Bengal. The mean temperature of the past 24 hours differed very sightly from the normal for the day except in South Bengal, where it was 2½° in excess. Light southerly winds were blowing at the head of the Bay today. Winds were light and variable in North Bengal. Strongish winds between south and east continued in South Behar and Chutia Nagpur. The air was generally drier, especially in Orissa, South Behar, and Chutia Nagpur. Skies were much less clouded in Bengal, and were overcast in Chutia Nagpur and the Gya district, and over the Darjeeling hills. A few light showers of no importance occurred in Orissa, South-West Bengal, and South-East Bengal. No rain fell over nearly the whole of Northern Bengal, Behar, and Chutia Nagpur.

Tuesday, 3rd July.—Pressure had increased generally by small amounts, and was above the normal, by amounts which ranged from '03" at Chittagong to 14" at Hazaribagh. Temperature increased rapidly with the continuation of the partial break in the rains. The mean of the past 24 hours was 4° above the average in Northern and Central Behar, 2½° in Orissa, and 1° in South-West Bengal and Chutia Nagpur. Winds were light and irregular. Westerly winds had extended during the previous 24 hours from the North-West Provinces into South Behar and Chutia Nagpur. In the north-west angle of the

Bay, the winds had shifted round to north-west, indicating the commencement of a cyclonic whirl at the head of the Bay. Winds varying in direction between south and east, prevailed in East and North Bengal, and North Behar. The westerly winds in South Behar and Chutia Nagpur caused a considerable decrease in the humidity. Skies were overcast at a few stations in Orissa and South-West Bengal. Elsewhere they are clear or lightly clouded Fairly general rain was received in South-West Bengal and in Chutia Nagpur. Purulia registered 3.4 inches and Contai 2.89 inches. Local showers fell in East Bengal and the

Chumparun, Patna, and Gya districts. Elsewhere little or no rain fell.

Wednesday, 4th July.—The barometer had fallen at the great majority of stations, rather rapidly in East Bengal, and more slowly in other districts. Pressure was below the normal at Chittagong, and above it at all other stations. The most important feature was the establishment of an area of slight barometric depression in the Sunderbuns and the adjacent part of the head of the Bay to the south of Jessore. Temperature was normal in South-West Bengal, Chutia Nagpur, and the southern districts of South Behar, and above it in other districts. The mean temperature of the past 24 hours was 1° above the normal in East Bengal, and from $2\frac{1}{2}$ ° to $4\frac{1}{2}$ ° above it in North and Central Behar. Winds were mainly dependent on the barometric depression in South Bengal. In Eastern Bengal they were south-easterly or easterly. In Orissa, Chutia Nagpur, and at the more western stations in South-West Bengal, they ranged in direction between north-north-west and west-north-west. Winds were variable and light in North Bengal and North Behar. The air was considerably damper in South Behar and Chutia Nagpur. The sky had clouded over again in Orissa and South-West Bengal, and was also thickly clouded or overcast in South Behar and Chutia Nagpur. It was nearly free from cloud in the western districts of North Behar. Rain fell in every division during the past 24 hours. General and moderately heavy rain was received in South-West Bengal and Chutia Nagpur. The rain showers were lighter in East and North Bengal and in South Behar, and the rainfall more local in character. Dum-Dum received 4.25 inches during the 24 hours preceding 6 r.m., Satkhira 3.85 inches, Saugor Island 3.82 inches, and Busseerhat 3.29 inches.

Thursday, 5th July.—Pressure gave way rapidly over the province during the preceding 24 hours. The fall of the barometer averaged a tenth of an inch and was greatest at Balasore (15") and at Saugor Island (13"). Pressure was now below the normal by amounts which ranged from '002" at Hazariban to '02" at Chittagong and Calcutta. The depression was more clearly marked. The centre of the cyclonic circulation on the 5th was near the coast of the Soonderbuns south of Jessore, and in nearly the same position as on the 4th. Temperature had decreased and was below the average, except at Dacca. The mean temperature of the past 24 hours was from $\frac{1}{9}$ ° to $1\frac{1}{9}$ ° below the normal, except at Calcutta, where the deficiency was $5\frac{1}{9}$ °. Winds indicated cyclonic circulation about a centre near the west of South Bengal. They were south-easterly in East Bengal, easterly in North Bengal, north-easterly to northerly in North Behar, north-westerly in South Behar and Chutia Nagpur, and south-westerly at False Point and Gopalpore. Winds were stronger in Bengal and Chutia Nagpur, but were very feeble in Behar, where calms were stronger in Bengal and Chutia Nagpur, but were very feeble in Behar, where calms were registered at several stations. Humidity had increased considerably in Orissa, North and Central Behar and North Bengal. The sky was overcast in Orissa, South-West Bengal, East Bengal, Behar and Chutia Nagpur, and thickly clouded in North Bengal, general rain fell in Orissa, South-West Bengal (except the Burdwan and Moorshedabad districts), East Bengal, Behar and Chutia Nagpur. The rainfall was heavy in Orissa, more especially the Pooree district. Pooree received 4:28 inches and Khordah 4:14 inches. It was light to moderate in South-West Bengal and East Bengal, and no heavy rainfalls were received. The rainfall in Behar was very general, and was well distributed the were received. The rainfall in Behar was very general, and was well distributed, the majority of the amounts registered varying between one and two inches. The day was almost rainless in North Bengal.

Friday, 6th July .- Pressure had decreased at the great majority of stations. The fall Friday, 6th July.—Pressure had decreased at the great majority of stations. The fall of the barometer was small, except in Orissa and the adjacent districts of the south-west Provinces. This fall brought into greater prominence the barometric depression at the head of the Bay. The centre was moving slowly westwards parallel to the west of the Soonderbuns towards the Orissa Coast. Pressure was below the average by amounts which ranged from '02" at Patna to '15" at Saugor Island. Temperature was below the average, except at Burdwan and Dacca. The mean temperature of the past 24 hours was 4½° below the normal in Orissa, and 2½° in Behar and Chutia Nagpur. Winds were generally stronger than they were on the 5th, more especially at the head of the Bay. They stronger than they were on the 5th, more especially at the head of the Bay. They continued to indicate cyclonic circulation of moderate intensity. The air was unusually dry in East Bengal. It was very damp in Chutia Nagpur, South Behar, and Orissa. The sky was overcast in Orissa, Chutia Nagpur and South Behar. The cloud amount in North Bengal was small. Rain had fallen over nearly the same areas as during the previous 24 hours. Moderately heavy rain was falling in Orissa. False Point recorded the largest amount—3:36 inches. General rain was again received in Behar and Chutia Nagpur. Bettiah received 2.5 inches and Chupra 2.3 inches. Showers fell at the great majority of the sub-divisional stations in South-West Bengal. The rainfall was unusually light in North and East Bengal, but more especially in the former.

JOHN ELIOT, Meteorological Reporter to the Govt. of Bengal.

METEOROLOGICAL OFFICE, BENGAL, The 10th July 1883.

MORTUARY STATISTICS OF THE DISTRICTS IN BENGAL FOR THE MONTH OF MAY 1883.

The subjoined table discloses that, during the abovementioned month, 88,391 persons died among a population of 64,553,682 living in the area under registration in Bengal, excluding the district of Lohardugga, from which no return was received up to date. These figures yield a death-rate of 16:32 per 1,000, against 17:76 per 1,000 in the preceding month, and 20:88 per 1,000 in the corresponding month of 1882. Males died at the rate of 18:36 per 1,000, and females at 14:52 per 1,000, and the proportion per cent. of male to female deaths was 124. The corresponding sexual returns of the preceding month were—male deaths 20:16 per 1,000; female deaths 15:48 per 1,000; ratio per cent. of male to female deaths 127.

The several death-causes presented the mortality shown below :-

					Ratio p	er mille.
					In May.	In April.
Cholera			***	***	2.40	2.04
Small-pox		***		***	.24	.24
Fever		***	•••	***	10.68	12:36
Bowel-complaints	***	***		***	.72	-72
Injury	***	•••	***		.36	.24
Other causes		***	***	***	1.80	2.04

indicating that, in comparison with the preceding month, the mortality from cholera had increased to a small extent, and that from fever had abated sensibly, while the fatality from small-pox and bowel-complaints maintained the same ratios.

The incidence of small-pox, fever, and bowel-complaints was, on the whole, normal in every district, except with regard to fever in Burdwan and Nuddea, where this disease prevailed rather severely. Cholera, however, proved conspicuously fatal in the undermentioned districts. It is noticeable that in the districts of Bankura, Birbhum, Hughli, Jessore, Rajshahye, Bogra, Pubna and Maldah, which are said to be very well, if not thoroughly, protected by vaccination, no deaths occurred from small-pox:—

	p	Ratio er mille.			Ratio r mille.			Ratio per mille.
Julpaiguri	***	12:72	Jessore		 3.96	Rajshahye	***	3.00
Nuddea	***	9:60	Durbhanga	***	 3.96	Tipperah		3.00
Shahabad		6.84	Balasore		 3.96	Mozufferpore	***	3.00
Maldah		5.52	Patna		 3.72	Howrah *		2.88
Mymensing	***	4.68	Rungpore		 3.24	24-Pergunnahs		2.76
Murshidabad		4:08	Backergung		 3.24			

The Classes or Nationalities into which the population of the registrative area is divided, presented the following death-rates, as contrasted with the rates of the preceding month:—

					Atauto p	or mino,
		- 1			In May.	In April.
Christians	***		***	644	19.20	15.00
Hindus	***	***	***	***	16.20	17.52
Mahomedans	***		***	***	16.92	18.72
Budhists	***		***	***	11.88	11.04
Other races	***	111	***	100	13.68	12.84

These figures represent a decrease in the mortality among Hindus and Mahomedans and an increase among the other denominations, particularly among Christians, in comparison with the death-rates of the preceding month.

Referring to mortality in relation to Age, infants under one year furnished a death-rate of 82.44 per 1,000 of the living, against 91.92 per 1,000 in the preceding month, and old men of 60 years and upwards of 33.84 per 1,000, against 39.72. The mortality under the rest of the groups of ages columned in the table, ranged from 23.40 per 1,000 among those aged 50 to 60 years to 8.16 per 1,000 among those of 10 and under 15 years, the corresponding proportions in the preceding month being 27.12 and 8.40 among those of the corresponding ages, respectively.

F. W. A. DEFABECK,

Offg Sanitary Commissioner for Bengal.

The 7th July 1883.

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0			(1)25007/00032071H401	Ratio of male deaths.	######################################	89995	HERRER	25222	114	8953833 8953833	EB583	5H 201	8 88	12.43
			ER 1,000 LATION NUM.	Feminies.	27.18 11.78	16.20 20.04 19.85 18.45 18.45	17.50 18.10 18.10 18.96 18.96	19:00 5:04 19:56 13:00 14:83	13.56	19-68 17-68 19-88 18-88 18-88 18-88 18-88	18.72 14.64 19.66 9.60	11.55	11.76	14.52
		Sex.	RATIO PRR 1,000 OF POPULATION PER ANNUAL	Males.	14.52 14.52 14.52 14.53 14.53 14.53	18-30 58-88 42-48 16-20	8458 8458 8458 8458 8158	16-98 7-80 23-64 14-40 17-28	16.20	88.88 14.16 17.52 17.52 17.62 17.63	7.82 17.40 18.73 28.68 11.88	13.56 16.56 21.84	15.19	188
1			15000	Pennalos.	1,858 638 1,444 1,861 1,861 1,861 1,861	2,063 2,063 1,286 991 696	1,073 1,147 1,042 557 736 72 663	1,085 1,518 1,500 1,500	683	1,474 1,243 1,492 1,456 1,456 1,192 890	403 1,048 1,120 885 630 630	888 603 787	978 529	39,359
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			COMPABISON WITH PREVIOUS PERIODS.	Ratio of deaths per 1,000 of popu- intion per annum in the correspond- ing menth of the previous year.	26.76 28.76 26.76 16.20 16.20 16.22 16.22 16.22	20.04 31.44 18.96 24.84 24.84 21.00	16-38 25-32 17-40 17-40 23-04 21-21 21-21 21-21	13.92 11.25 87.68 7.30 13.44	32.76 18.48	28.16 118.32 118.93 13.92 13.92 13.92	24.48 28.20 21.00 18.60 13.36	25°33 30°48 36°36	16'36 15'84 24'96	
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			ЭЖ.	All causes.	25.56 15.24 16.08 14.53 13.56 12.56	42.52.53 42.52.53 52.52.53 53.	19.63 13.40 14.40 14.40 13.46 13.46 13.46	14.04 6.48 21.60 13.20 15.84	15.48	21.00 1612 20.64 11.76 15.24 15.28	6-84 15-90 16-80 10-80	15.60	15.92	1000
	-01 £		IR ANNUM	Other diseases.	17.88 17.88 17.89 17.80 17.80	1.80 2.28 3.84 7.77	1288888	2882	3.00	37.72 11.32 11.56 1.56 2.96 2.28	26222	3.24 8.52 5.16	1.08	1.80
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ю				Bowel-complaints.	25.51 25.51	168	20.00 20.00	11.25 35.35 38.35 38.35 38.35	65 % 85 %	27.60 60 17.08 17.08 17.08 17.08	182282	1.29	% 24 p to date 1.20 ° 80	17.
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		Disease	RATIO	Cholera.	156 178 178 178 178 178 178 178 178 178 178	3.96 3.96 3.96 1.38	3.00 3.24 3.24 1.08 1.08 1.27 1.27 1.27	8.8.4 48.8.4 48.68 48.68	1746	372 1756 6°84 3°00 3°96 1°44 1°44	12 28 28 8 20 28 8	1.44 705 5'96	Retur 128	99-52
			-	All causes.	2,967 1,528 1,072 8,140 802 398 658	2,715 4,676 3,549 2,339 1,373	2,484 2,983 1,994 1,683 1,421	85.478 88.83 87.83 87.83 87.83 80.84 80.84	1,464	8,076 8,838 8,838 8,836 1,536 1,156	2,469 2,469 2,590 1,427 1,414	1,887	1,393	88,391
				Other diseases.	207 221 288 288 53 75 75	280 329 172 87	103 174 125 125 125 125 125 125 125 125 125 125	6888	120	2 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SERSE	688 409	109 189	606'6
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8		POPULATION		Females.	723, 728 534,616 513,966 1,273,988 346,227 177,589 818,902	894,429 849,942 980,804 640,307 511,546	732,054 678,412 1,030,263 861,681 663,417 66,281 278,007	1,089,487 826,745 927,410 1,498,569 748,445	600,692	898,073 1,081,241 1,014,659 1,316,329 1,837,659 1,196,817 859,381	1,000,659 987,089 911,607 863,450 782,763	917,383 441,875 483,819	250,839 250,986 538,900	89,518,573
		A		Males.	668,295 507,136 381,563 1,244,374 814,586 174,366 316,479	975,430 805,779 908,271 586,483 568,403	782,992 660,236 1,067,701 872,677 648,311 88,948 305,555	1,083,803 805,989 973,479 1,553,397 770,893	531,649	868,783 1,043,441 1990,250 1,290,731 1,290,788 1,081,663 879,627	969,124 979,119 837,060 348,998 785,339	877.709 446.609 461,461	544,903 280,978 525,328	32,035,109
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MEMORANDA.

The subjoined table exhibits the vital statistics of the first class municipalities in Bengal

for the week ending 23rd June 1883. The figures submitted in this table indicate—

(1.) That the birth and death-rates amounted, respectively, to 21·2 and 28·4 per 1,000 of population, as opposed to the birth and death-rates of 14·7 and 27·3 per 1.000, respectively, in the preceding week ending 16th June, showing that both the birth ratio and the death ratio were higher during the week under review.

(2.) That the following municipalities returned the largest proportions of births and

deaths during this week :-

()							
	Births.		1	Deaths.			
		Patio per mille.				4	Ratio per mille.
Patna		62.3	Mozufferpore				62.0
Burdwan		25.9	Durbhanga				55.1
Bhagulpore		23.5	Gya	7			44.4
Comillah		23 1	Purneah				41.6
			Patna				35.4
			Comillah				34.7
			Bhagulpore				32.6
	1		Jessore		div G		30.6
			Poori				30.0
			Darjiling				29.6
			Kishnaghur				28.8
		-	Chuprah				28.3
			Suburbs of Ca	leutta			27.1

That the mean rates at which the several death-causes mentioned in the table proved fatal, in comparison with the rates of the preceding week, were: -

			Ratio per week	1,000 during ending
			23rd June.	16th June.
Cholera		 	 4.5	5.6
Small-pox		 	 •4	•4
Fever		 	 11.7	11.7
Bowel-complain	ints	 	 4.5	3.1
Injury		 	 .4	.3
Other causes		 	 6.9	6.2

indicating that there were an increase in the death-rate from bowel-complaints, a decline in that from cholera, equal mortality from small-pox and fever, and no material difference in

fatality resulting from the other diseases.

(4.) That, individually considered, the greatest suffering from cholera and fever occurred in the undermentioned municipalities, the other diseases exhibiting no special local severity :-

	Cholera.			1	Fever.	
		1	Ratio per mille.			tio per nille.
Mozufferpore .			21.9	Comillah		 30.8
Gya .			15.0	Purneah		 27.7
Durbhanga .			12.6	Mozufferpore		 21.9
Chuprah			6.8	Gya		 21.2
Suburbs of Cal	cutta		64	Kishnaghur		 20.0

(5.) That referring to mortality with reference to Class or Nationality, Christians died this week in the highest proportion, Hindus in the next degree, and Mahomedans at the lowest rate; and that there occurred only one death among the Budhists, the casualty being recorded in the Darjiling Municipality.

(6.) That with regard to mortality referable to Age, infants, as usual, perished in the largest number, (199.5 per 1,000), and next to them children of one and under five years, (60 per 1,000); that the aged also returned a high mortality, (49.3 per 1,000); but that the lowest suffering occurred among adults of 10 and under 15 years, (12.6 per 1,000).

F. W. A. DEFABECK,

Officiating Sanitary Commissioner for Bengal.

The 9th June 1883

	11.	Sex.	RATIO PER 1,000 OF PER ANNUM.	Females.	29.86	8 18.4	3 16-3	6 53.0	1 17	10 19-6	47 29	20 0	1 9.0	3 21.5	1 9.7	1 34.1	6 69.5	18-7	2 11	200	64 39	24	100	27 54.1	82 28	13 81-9	16 35.1	8 111	7 30-7	5 35.9	910 90.0
10			Деатия .	Males.	10	9	9	9	-	87	\$:	•	91	91	91	60	57	61	63	*	45	41	12	22	Z	16	50	9	112	0.	1117
6			COMPARISON WITH PREVIOUS PERIODS.	Antio of deaths per 1,060 of popula- tion per annum in the previous week. Ratio of deaths per 1,060 of popula- tion per annum in the corre- sponding week of the previous year,	15.3	10.8	13.4	22.2	18.9	12.3	50 55 64 9	900	52.0	19-0	èi elda	50 Linva	17.5 n ton	f state		80.8	6.82	28.3	1.85	62.0	9.69	\$.93	8.06	19.0	9.88	m	0.00
	TO-			All causes.	6.27	2-15	12.1	53.2	18.6	16.3	27.1	0.81	0.9	9.02	5.6	9.65	\$.15	e5.	11.7	34.7	\$22.4	1.11	6.22	62.0	55.1	28.3	9.58	12.7	9.19	39.0	7.50
	DING		ON PE	Other diseases,	1.9	9.4	1.0	8.9	\$.6	1.6	2 2		: :	:	:	1	10.4	4.1	95	65	80.00		0.9	10.0	16.2	3.9	91	4.5	0.20	-0.4	0.40
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	MORTALITY		1,000 c	Fevers.	12.2	10-8	8-1	15.7	1	4	8.8	18.0	6.5	18.7	6.2	14.8	10.4	;	1.1	8.08	11.7	63	10.1	6.18	14.9	90,00	16.3	8.1	27.7	4.3	1
	MO	Disease.	RATIO PER 1,	Small-pox,	1	:	:	:	:	1.2	1	:	: :	:	;	:	1	1	1	:	1.3	Ž	3	:	1	1.0	ç	1	1		1
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9			g to every	Ratio of male birth 100 female births.	1112	300	175	100	No femals	163	152	No malo	births. 183			No female	144	No female births.	166	20	137	160	135	114	116	125	73	100	100	195	100
			1,000 TION TM.	Total.	6.25	12.4	14.8	11.8	9.4	14.3	16.3	0.9	15:1	1	1	7.4	14.3	8.3	18.8	53.1	62.3	17.8	10.8	18.2	20.2	17.6	23.2	0.6	6.9	19.3	0000
10	H S		BATTO PER 1,000 OF POPULATION PER ANNUM.	Females.	51 51	3.1	5.4	6.9	1	2.7	70	6.9	6.2	1	!	1	90	:	7.1	19.4	5.93	9.9	4.3	90.0	2.6	700	13.6	4.5	10.00	9.8	100
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63	POPULATION			Fomales.	16,017	16,633	19,539	12,937	2,464	44,639	104,234	4 653	12,549	8,665	9,025	2,439	87,379	4,956	8,790	5,853	81,475	37,831	22,505	19,658	32,322	27,205	27,813	29,366	6,553	11,265	692 500
0.160	POP			Males.	18,063	16,927	621,61	13,559	3,046	686'00	147,205	4,690	11,589	4,830	10,766	4,579	49,782	7,605	13,840	8,153	78,762	88,920	996'06	23,084	88,774	150'96	29,640	28,154	8,463	13,027	Prot oft
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		*	RATIO	or nader 10		-	-	.02	i	-	18.	- 46	-	-	-	20.0	-	10.2	-	1		18.	14	50	•	0 00	•		8	3	19-8	二四時
		Age.		I and under 5 years.	l	1.55	-	28.8	!	15.9	92.4	63.5		-	210.2	***	9.515	7.16	i	58.4	i	-88	130-9	10.4	. # CT	0.041	001	94-1	3		0.09	
		A		Under 1 year.	157.6	20.0	230.6	7.613	1	107-2	294.6	147.9	\$.509	-	-	1	1	274-0		5.56	625.3	205.1	4.555	121.1	0 80	2 102	646-4	20.0	188-7	1838.0	199.5	
			6	-du han sand up-	-	-	02	93	1	63	1-	-	п	1		i	:	63	H	-	1	п	п	60	29 1	- 1	0 1	, ,		9 0	1	
	G TO		e i i	50 and under 60 years.	1	4	91	i	04	10	10	83	1	1	1	1	1	10	-	1	61	*	9	1	99 (99 6	q		: 0	9 0	1 2	
	ACCORDING			Neura. 40 and under 50'	61	63	:	1	i	4	90	;	:	3	1	:	1	1	1	1	1	KQ.	1-	60	4	0	0 0	q		7	1 2	
	ACCO		3.77	30 and under 40 years,	10	4	i	60	į	9	87	91	1	1	1	1	i	01	1	1	60	13	9	01 1		,	4 80	0	0.		12	
	LITY		18	20 and under 30 years.	01	1	i	91	:	7	12	63	:	:	1	-	1	4	i	н	-	10	10	1	7	3 0	0 4	•	1	*	94	
	MORTALITY		DEATHS.	15 and under 20 years,	91	-	1	1	:	-	9	1	:	:	-	i	1	01	1	1	1	4	9	:	0. 0	9 0	, ,	4 65			35	
	MC	25.0		years, years,	1	i	;	:	1	-	10	10	ŧ	-	-	1	1	61	1	-	1	00	1	-	1	1		•			: 3	
				5 and under 10 years.	:	ŧ	E	-	1	i	1	*	:	1	1	0.5	1	91		1	1	120	91	09 (0 1		, 0	•			1 09	
		in a		I and under 5 years.	:	-	:	-	1	91	11	4	;	- 1	09	1		60	1	1	1	201	16	9	22	54	0 0	0 .0	•	1	197	
				Under I year.	01	-	*	00	1	10	27	01	01	1	4	1	ı	10	. 1	1	09	17	00	03		ю .	1 0				116	
		T.	TEA-	Other classes.	1	:	:	;	:	1	1		- 1	-1	I	1	i	-;	- 1	ı	;	.;	i	1	1	.1	1				T	
			RATIO PER 1,000 OF POPULA- TION PER ANNUM.	Buddhists.	1	1	£	+	ŧ	:	1		1	-	:	1	81.2	ı		1	1	1	i	1	;	1	1				59.5	
			,000 o	Жирошедина	1.01	21	-	2-17-	:	16.7	27.2	0.59	1	7.00	8.05	15.9	1	29.1	*	13.6	26.3	13.1	61.5	0.16		61.0	6.1.6	00	36-7		\$.43	
		ar V	PER I	Hindus,	28.5	1.95	14.8	16.5	19.9	16.6	52.7	6.03	21.3	6.1	23.1	1	55.6	14.3	91	0.6	9	40.1	6.62	07 07	0 00	96.6	65.55	14.0	45.3	30.3	28-7	
			RATIO	Christians,	1	1	1	1	:		1771	6.06	Men	1	1	1	325.0	1	1	1	1	2.951	1	1							45.2	100000
		Class.		Other classes.	1	1	į	1	1	1	1	1	1	1	1	1	1	I	1	1		1	1		1	1	ı					
			-980	Buddbists.		1	:	1	:	B	1	1	1	1	1	1	1	1	1	:	1	1	1	1	1.	į		10			-	
			IS ANO	Mahomedana,	01	mi	1	+	1		21	đ,	1	н	80	60	ī	01	1	*	œ	12	19	10	2 :	0 0	0 0			10	206	C
			DEATHS AMONG-	Hindust	13	12	0	90	01	92	7.0	13	00	21	93	1	61	11	-	1.	7	83	98	29 4	9 1	9 6	1 6	1 0	90	17	210	BEN
				Christians.	7.1		1	1	1	1	9	-	:	1	1	1	-	.1	1		1	7	ı'	1		1					0	FOR
					1	1	1	1	1	1	ī	i	1	1	1	1	1	1	;	1	1	1	ī	*1					- 1		1	NER
			NICI.		1		1	1	1	1	1	1	1	1	1	:	1	1		1		1	1	1					ı	2 1	FAL	UESTO
			MT MT		1	1	ursh	4	1	4		i	i	1	1		1	1	1	1	1	1	1	1	1						TOTAL	NWO.
		- 19	NAMES OF MUNICI- PALITIES.		1	1	Chinsurah	i	1	1	Caleutt	i		1	1	sauleal	1	1	1	i	1	1	1	1	:	;	4					RY C
			NAM.		Burdwan	Midnapur	Hughli and	Serampore	Uterpara	Howrah	Suburbs of Cal	Kishnagar	Ranaghat	Santipore	Jessore	Rampore Beauleah	Darjiling	Dacen	Narsinganj	Chittagong	Comillah	Patins City		Arrab	Durbhanas	Chunrah	Bhagulpore	Monghyr	Purnesh			OFFICE OF SANITARY COMMISSIONER FOR BENGE
		7300			Bu	Mis	Hu	Sen	Ute	. Но	a Sul	Kis	4 Raz	(San	Jes.	Ran	. Dar	[Dac	l Nan	Chi	5	Pari	659	Arrab	-	9	Bha	Mon	Pur	. Poori		S 40
			orrs.		1	1				1						1													39			ICE
			DISTRICTS.					9			nnahs						220			8	District of the last of the la	VIII.		9400			67	1				OFF
NO IN			D)		Bardwan	Midnspur	Нидрі	Serampore		Howrah	24 Pergunnahs	Y L	Nuddes		Jessone	Rajshahye	Darjiling	Daces		Chittagong	Tipperah	Patras	Gya	Shannond	Durbhanes	Saran	Bhagulpore	Monghyr	Purnesh	Poori		

Results of the Meteorological Observations taken at the Alipore Observatory from 1st to 7th July 1883.

			of sun-	meter	T	EMPER	ATURE.		1	Irenom	BTRT.		Wind.			
Month.	Date.	Maximum to sub.	Number of hours o	Mean pressure barometer at 32° Fahr.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	WEATHER.
1883.		0	*	In has.	θ	θ	Θ	Θ	0	Inches	θ	%			Unches	
July	1st	156.4	4	29:601	83.0	88.6	12.4	76.2	80.0	0.986	78.8	88	SE, ESE and S by W	118	0.03	Cloudy, o, g, p,
	2nd	155.5	10	*598	84.8	90.5	11.5	79.0	80.9	1.006	79.4	84	S, SE and SSW	75	Nil.	Chiefly cloudy.
	3rd	148.5	7	.618	83.5	89.0	98	79.2	79.2	0.942	77:4	82	SSW, WNW and va-	87	0.13	Cloudy, o, g, d,
.,,	4th	128.5	Nil	.557	80 7	84.8	7.6	77.2	78.6	'952	77.7	91	NW and W by N	90	2 16	Cloudy, o, g. p, d
,,	5th	158.4	5	.474	81.3	88.2	9.3	79.2	78.5	•936	77.2	87	NE by E and N by E	153	0.22	Cloudy, o, g, d,t
,,	6th	147:6	6	443	83.2	88.4	9.7	78-7	79.6	.965	78.1	85	E and ESE	229	0.23	Cloudy, o, g. p,
,,	7th	144.0	Nil	*481	82.9	87:4	8.2	73.2	79.1	.941	77.4	83	SE, E and SSE	284	0.12	Cloudy o, g, d,
				sure of				ding	perio	d for	24 ye	ears	S. G. Office			1ncnes, 29·539 29·548
	The The The	avera total i	temp	er of h	of the	of sur	espon ashine eu da orres	e of t	he se	ven da	ys or 24		. S. G. Office			29.539 29.548 Hours: 32 ⊕ 82.8 83.6
	The The The The	avera total i	temp	er of h	of the	of sur	espon shine en da orres	ys pondi	ng pe	ven da	ys or 24					29·539 29·548 Hours: 32 0 82·8 83·6 14·3 90·5
	The The The The The The	mean average extremaxin	temp ge ter me va	er of herature	of the	of sur	espon eshine eu da orres ature ag the	ys pondi durin	ng pe	eriod i	or 24	yes	ars, S. G. Office			29.539 29.548 Hours: 32 \$\text{\tin}\text{\te}\tint{\texi}\text{\text{\text{\text{\text{\text{\\texi\tin}\text{\\texi\tex{\texi}\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\tex
	The The The The The The	mean average extremaxin	temp ge ter me va mum	er of herature nperature niperaturation temper	of the	of sur	espon en da orres ture in on	ys pondi durin seve	ng peng the	ven da	or 24 day	ye s	ars, S. G. Office			29.539 29.548 Hours: 32 \$\text{\tinx}\text{\tinx}\text{\til\text{\tex{\tex
	The The The The The The The The	mean average a	temp ge ter me va num st vei	er of herature mperature minimization temper ocity of ssure of	of the cours of the cours of the cours of the cours of the course of the	of sur the sev the c mpera durin wind wind	es da orres ture in on on or	ys pondi durin seve hou ne squ	ng peng the an day	eriod is seven	or 24 day	the	ars, S. G. Office	٠.		29.539 29.548 Hours. 32 \$\text{\tinx}\text{\ti}\xi\text{\te\text{\text{\text{\text{\text{\text{\text{\text{\texi{\text{\tex{\texi{\texi{\text{\texi{\texi{\texi{\text{\texi{\texi\}\text{\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\

e obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The parometer readings are corrected approximately to those of the standard Newman's No. 86 formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction of the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, p passing temporary showers, t thunder, d drizzling rain, lr lightning reflection.

John Eliot,

METEOROLOGICAL OFFICE, INDIA, The 9th July 1883.

For Meteorological Reporter to the Government of India.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 1st to 7th July 1883.

			Тимрика	ATURE.		HYGROMETRY.				
Montu.	Date.	Мевъ	Maximum.	Range.	Minimum,	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Rain
1883.	Ist 2nd 8rd 4th 5th 7th	89.7 84.6 84.3 79.0 80.6 82.4 82.3	88.8 91.4 90.0 85.8 88.1 87.8 88.6	0 11:0 11:6 9:3 8:6 8:8 9:0 9:4	0 76.8 79.8 80.7 77.2 79.3 78.8 79.2	79 4 81 3 80 6 78 4 79 3 80 0 79 8	Inches. '961 1'026 '995 '966 '985 '985 '985	78.0 80.0 79.1 78.2 78.8 79.0 78.8	% 86 86 84 98 94 89	Inches Nil "812 0 09 0 41 0 01

				-
Š	The mean temperature of the seven days			 82.3
	The extreme variation of temperature during the seven	days	****	 14.6
	The maximum temperature during the seven days	201		 91.4
•	The second second			%
	The mean relative humidity during the seven days			 89
				Inches.
	The total fall of rain from 1st to 7th July 1883			 4.28

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

Metrorological Office, India, The 9th July 1883. JOHN ELIOT,

For Meteorological Reporter to the Gout. of India.

Abstract of the results of the Thermometric Observations taken at the Meteorological Office, Chowringhee, in the month of June 1883.

	*				0	
	The mean temperature during the month				83:4	Date.
	The highest temperature during the month				99.0	1st and 7th
	The lowest temperature during the month				75.8	5th and 18th
	The range of temperature during the mo	nth			23.2	
h	The mean daily range of temperature during	ng the mo	nth		12.3	
	The greatest range of temperature in one d	lay during	the month		20.6	5th
					0/	
	The mean humidity during the month			***	85	
	energy and the second		Br		Inches.	
	The mean vapour tension during the mor	nth			.972	
	The total rainfall of the month				11.96	447.4914
	The greatest fall in 24 hours				2.44	14th
				1	Days,	
	The number of rainy days in the month				17	

JOHN ELIOT,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA, The 9th July 1883. Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of June 1883,

	46.0		Tweet	of Day	
			Inches.	Date.	hour
The mean pressure of the month	***		29.519		
The average pressure of 24 years	***		29.549		14.00
The highest pressure during the month		***	29.773		10h.
The lowest pressure during the month	***	***	29.214	11.00	16h.
The range of pressure during the month	***	***	0.559		7
The total number of hours of sunshine during the	he mont	h	Hours 136		
BELLEVING CONTROL OF THE CONTROL OF			0		
The mean temperature during the month			83.9		
The average temperature of 24 years	***		85.0		
The highest temperature during the month		***	98.7	1st	
The lowest temperature during the month	***		73.2	5th	
The range of temperature during the month			25.5	oth	
The mean daily range of temperature during the		•••	13:1		
The greatest range of temperature in one d			10.1		
month			21.3	5th	
			Per cent.		
The mean humidity during the month			83		7.3
The average humidity of 24 years	***	•••	81		7
All the same of th			Inches		
The mean vapour tension during the month			0.960		
The average vapour tension of 9 years			0.998		
The mean cloud proportion of the month			7.94		
The total rainfall of the month			10.20	v 11	
The total rainfall of the month indicated by a	Reckley	's self-	10 20	,	
registering rain-gauge (mouth of the gauge			9.55		
The eveners fell of 48 years	00 0 100		12.08		- 30
The greatest fall in 24 hours	***	***	2.40	1.4	
The greatest ian in 24 nours			4.40	1st	
The control of the co			Days.		
The number of rainy days in the month			20		
The average number of rainy days of 24 years	***		19		1 1
			0		- 4
The mean maximum equilibrium temperature of	solar r	adiation			744
of the month			146 4		4
The mean difference of sun and air temperatures			55.6		Seek and
The greatest sun temperature		***	161.9	8th	- 100
The greatest excess of sun over air temperature			68.6		
The mean temperature of nocturnal radiation	thern	nometer	00.0	23rd	
on woollen cloth			75.0		
The mean depression of nocturnal radiation	thern	ometer	100		
below the minimum of air			2.8		3.00
The greatest depression of nocturnal radiation	therm		4.4		
below the minimum of air	· · · · · · · · · · · · · · · · · · ·		4.8	lst	
GOOD IN THE MANAGEMENT OF THE COLUMN		1-9-1-6		196	-12-30-90194
			Miles.		
The mean movement of the wind per day	***		153.8		
The greatest movement of the wind in one day			472.0	29th	
The greatest movement of the wind in one hour		***	28.0	29th, 10	to 11 A.M.
The number of hours under each of the 8 point	s—				

N. 2, NE. 18, E. 90, SE. 108, S. 238, SW. 213, W. 38, NW. 9, Calm 4.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore '003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0.5° greater; and finally, the thermometer, which has furnished the record of temperature at the Surveyor-General's Office during the last 20 years and upwards, is found to read 0.6° higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

N. B.—In the monthly abstract for April 1883 read 0'840, instead of 0'835, as the mean vapour tension during the month; and in that for May 1883 read 76 per cent., instead of 75 per cent. as the mean humidity, and 0'944 instead of 0'935 as the mean vapour tension during the month.

JOHN ELIOT,
For Meteorological Reporter to the Govt. of India.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1883-84.

Areas leased for Irrigation up to the end of May 1883.

		REMARKS,		Cambis were laid dry for electrons curing the month. Five years. khurved forese for 440' seres were completed during the month.						areas returned hat month were incar-				
11		Up to end of month.	faches.	10-87	******	1	9-95	******	1	0.40 1.62 1.96		- 1	-	
RAINTA	1882-85.	During month.	Inches.	9.18		1	8.68			0*40 1*67 1*96		-1		
11		Up to I month.	Inches.	40 61	1		4.63 6.21		1	0.18	1			
RAINPA	1883-84	During to month, n	Inches.	69,9			121						-	
	1	Grand Total. I	Acres.	68 68 68 68 68 68 68 68 68 68 68 68 68 6	734	123,942	9,801	63,656	103,863	4,133 14,245 59,578 214 10,983	89,163	61,582	153,553	289,386
		Total,	Acres.	8 68 81	\$65	119				381 1,882 7,726 7,726	10,114	15,834	10,408	15,953
		Hot 7	Acres.	8 4 1 1 1	551			1	-	6,108	6,175	1	6,200	
LEASED.	SASES.	Bhadoi. w	Acres.					1		124	154		154	
AREAS	ANNUAL LEASES.	Sugar- cane.	Acres.	1::::::::::::::::::::::::::::::::::::::	129	00		-		1,832* 1,464	3,785	12,409	8,914	12.417
DETAILS OF AREAS LEASED.	V	Rubbee. 8	Acres.	\$ 52 E E	140	ш			-			8,425	140	3,536
DE		Khur- B	Acres.											
	3	Five vears. Khurreef. F	Acres.	94	440	123,823	53,855	63,656	103,862				960*19	227,685
	_	Five years. All crops. Kh	Acres.		*					3,752 12,313 51,852 214 10,918	610,67	45,748	79,049	45,748
Approxi-	- 6	frrigation last year at same All time.	Acres.	111111111	-				-	158 4,469 73 2,571	7,301	-	7,301	
oneovi. Al	mate area of land of land under	E .	Acres.							79. 79. 79.	11,992	-	11,242	
4	-	utilized, irr	C. ft.	11111111111	-				Time.	499	-			
	Average		C. ft.	111111111		1	37			7738 458 7298	-	1	-	
	-	Percent of the latest	C. ft.	1,200 372-82 1,042 675 1,300 650 650 727-16	40000		1,411			4,242 1,926 1,660 1,466		1	-	
LE COLOR	District	PART TO SERVICE OF THE OWNER OWNER	1000年	Cettack High Level, Section I Parlamoendes High Level, Section I Taldenda, 1st Reach Differed, 2nd do Migh Level, Section II Balasore Might Level, Section II	Total	Total of the corresponding period of last year.	Nidnapore Midnapore	Total	Total of the corresponding period of last year,	Shahabad { Burnt Burnt Fatna and Gya { Patna }	Total	Year	Grand Total	Grand total of the corresponding period of
	Cracera			Ortsss		To	South-Western. { Ho		P. C.	Sone Par		To War	10000000000000000000000000000000000000	Gm

The 10th July 1883.

C. W. ODLING, Under Secy to the Govt. of Bengal, P. W. Dept.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 30th June 1883 on 1,509 miles open.

	COACHIN	G TRAPPIC.		AND MINERAL PPIC.	Other earnings	(Model) consistent	TOTAL TRAIN-MILES BUN.			
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Conching.	Merchan- dise.	Total.	
Total traffic for the week Or per mile of railway For previous 244 weeks of half- year	223,217 5,432,949	Rs. A. P. 2,22,322 1 0 147 5 4 61,12,511 9 7	28,68,729 0	Rs. A. P. 9,12,622 0 9 604 12 7 1,83,87,966 15 1	Rs. A. P. 20,524 10 5 13 9 7 5,30,598 3 7	Rs. A. P. 11,55,468 12 2 765 11 6 2,50,31,676 12 3	64,0521	185,7281 3,508,2141	249,775 5,161,508	
Total for 250 weeks	5,656,166	63,34,833 10 7	7,14,59,901 80	1,93,00,588 15 10	5,51,122 14 0	2,61,86,545 8 5	1,717,846	3,693,9372	5,411,283	
Potat or corresponding week previous year let interesponding week of previous year fotat to corresponding date of previous year	171,236 5,148,480}	1,78,402 1 6 118 6 5 71,21,606 10 3		4,90,360 5 3 325 7 1 1,74,63,134 1 5	42,262 0 7 28 0 9 6,21,486 7 0	7,11,024 7 4 . 471 14 3 2,52,06,227 2 8	42,659½ 1,390,682‡	91,169 , 3,078,095	183,828	

BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

			1.	RECEIF	TS	FOR	WESE END	IN	0	TOTAL			PTS FROM 1ST UARY	Total increase	Total	Percentag
Latest return received.		Name of Railway.	Length open.	27th May 1882.		26th May 1883.		To 27th May 1882.		lay,	To 26th May 1883.	in 1883.		of increase or decrease.		
1883.		and the second	Miles.	Rs.	Δ,	P.	Rs.	Δ,	р.	Rs.	A	. р.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.
The state of the s		Northern Bengal Tirhoot Calcutta and South-Eastern.	230 1584 43	39,984 12,447 7,650	0	0	45,316 20,723 8,433	0	0 0	7,99,202 2,88,878 77,548	0	0 0	9,69,775 0 0 3,40,246 0 0 1,22,577 0 0	1,70.573 0 0 51,368 0 0 45,029 0 0		+21 +18 +58
Ditto .		Nalhati	271	1,502	0	0	1,584	0	0	29,829	0	0	34,778 0 0	4,949 0 0		+16
		Total	459	61,583	0	0	76,066	0	0	11,95,457	0	0	14,67,376 0 0	2.71,919 0 0	3	+ 23

BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

		Tonath	RECEIPTS FOR V	WEEK ENDING	TOTAL BECEIPTS P	ROM ISTJANUARY	Total increase	Total	Percentage of
Latest return received,	Name of Railway.	Length open.	3rd June 1882.	2nd June 1883.	To 3rd June 1882.	To 2nd June 1883.	in 1883.	decrease in 1883.	increase or decrease.
1883.	Northern Bengal	Miles.	Ra. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs.
2nd June do do	Tirhoot Calcutta and South-Eastern Nathati	280 158‡ 43 27‡	33,529 0 0 12,238 0 0 2,584 0 0 1,730 0 0	35,745 0 0 19,678 0 6 5,728 0 0 1,662 0 0	8,32,731 0 0 3,01,116 0 0 80,132 0 0 31,59 0 0	10,05,520 0 0 3,59,924 0 0 1,28,305 0 0 36,440 0 0	1,72,789 0 0 58,808 0 0 48,173 0 0 4,881 0 0		+20 +19 +60 +15
ar - Och -	Total	459	50,081 0 0	62,813 0 0	12,45,538 0 0	15,30,189 0 0	2,84,651 0 0		七23

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Weekly Statement of Traffic Receipts.

		RECEIPTS FOI	R WEEK ENDING	TOTAL RECEIPTS	FROM 1ST JANUARY	Total live		Percentago	
The latest return received.	Length open.	3rd June 1882.	2nd June 1883.	To 3rd June 1882.	To 2nd June 1883.	Total increase in 1883.	Total decrease in 1883.	increase or decrease.	
eth July 1885	50	Rs. A. P. 6,869 5 9	Rs. A. P. 10,143 13 8	Rs. A. P. 1,46,070 4 9	Rs. A. P. 1,53,712 5 1	Rs. A. P. 7,642 0 4	Rs. A. P.	+5)	

Calcutta, the 4th July 1883.

GILLANDERS, ABBUTHNOT & Co., Agents.



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JULY 18, 1883.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta. or Twelve Rupees if sent by Post.

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ANNUAL REPORT OF THE GOVERNMENT CINCHONA PLANTATION IN BENGAL AND THE ANNUAL REPORT OF THE QUINOLOGIST FOR THE YEAR 1882-83.

FINANCIAL DEPARTMENT—AGRICULTURE

Calcutta, the 10th July 1883.

RESOLUTION.

READ-

The Annual Report of the Government Cinchona Plantation in Bengal for the year 1882-83, and the Annual Report of the Quinologist for the same year.

The result of the planting operations of the year shows a decrease of about 50,000 cinchona trees on the returns of 1881-82. This is due to the uprooting of a large number of the Calisaya and hybrid varieties which were found to possess bark of poor quality. Some 160,000 red bark trees were also uprooted in the ordinary rotation, and were replaced by the yellow bark and hybrid varieties. Nearly all the land within the existing cinchona reserve suitable for the cultivation has now been planted out, and the Superintendent accordingly applied, in October last, for permission to plant out with Ledgeriana and the hybrid variety a tract of land in the trans-Teesta portion of Darjeeling which had been reserved for Government cinchona cultivation. Both these species have been proved by repeated analyses to be very rich in quinine, while most of the yellow bark or quinine-yielding trees on the existing plantations at Mungpoo are quite young, and the whole stock is not sufficient to furnish, even when mature, enough bark to employ the factory profitably for more than a few weeks in the year. There is in fact no plantation of these trees actually

in existence, while the nurseries have a magnificent stock of nearly half a million plants of the best sorts of yellow bark trees which would be lost unless the seedlings were speedily planted out. The proposal for forming the new plantation was readily approved by Government, and measures have since been taken for planting out the reserve with a number of the best kinds of Ledgeriana and hybrid cinchonas.

2. In the Resolution recorded upon the proceedings of last year, it was remarked that there were several distinct forms of the hybrid variety, and analyses were given of the samples of bark of four of these forms. During the year under review the Superintendent had analyses made of four more of these forms, and the results obtained from all the eight hybrids are compared in the

following table :-

	No. 1.	No. 2.	No. 3.	No. 4.	No. 5.	No. 6.	No. 7.	No. 8.
Crystallised sulphate of quinine of cinchonidine of quinidine	traces.	1°48 2°85 traces, 0°57	1°88 2°93 traces. 0°52	0°97 1°94 traces, 0°80	2°12 2°84 traces. 0°33	2.04 2.26 traces, 0.68	6-12 2-46 traces. 0-55	3'99 5'33 traces. 0'57

Dr. King points out that hybrid No. 4 is very poor in quinine, and it was the trees of this sort that were uprooted during the year. No. 7 appears to be exceptionally rich in quinine, and the plantations of this variety might with advantage be extended.

The total number of cinchona trees of all sorts at the close of the year was 4 711,168, namely red (*Cinchona Succirubra*) 3,713,200, yellow (*Calisaya Ledgeriana*) 662,998, hybrid unnamed variety 304,378, and other kinds 30,592.

3. It is satisfactory to observe that the crop of the year is the largest that has yet been harvested on the plantations. It amounted to 396,980 pounds of dry bark, of which 372,610 pounds were of Succirubra, 22,120 pounds of Calisaya and Ledgeriana, and 2,250 pounds of hydrid bark. By far the largest portion of the produce was made over to the factory for conversion into cinchona febrifuge, while about 41,800 pounds of yellow and red barks were sent at the request of the Secretary of State to London to be there converted into various forms of febrifuge and returned to this country for trial by the Medical Department.

4. The expenditure on the plantations amounted to Rs. 80,739-6-2 against the budget allotment of Rs. 82,225. Of this expenditure Rs. 17,548-3-9 was incurred on the newly opened trans-Teesta plantation, and on the young plantation at Sittong. This sum is chargeable to capital account. The balance, amounting to Rs. 63,191 2-5, which was spent on the old plantation, and includes charges on account of packing and carriage of bark sent to

England, is chargeable as working expenses.

5. It is disappointing to notice the continued failure of Carthagina bark, notwithstanding that the utmost care has been taken of the plants and every endeavour made to grow them at various elevations and with various exposures. Only three plants were alive at the close of the year. An attempt has been made by the Superintendent to introduce the Remija plant, which is a genus botanically allied to cinchona. It is said to be less particular than cinchona as to soil and climate, and produces a quinine-yielding bark under the name of Cuprea. This bark forms a very large proportion of the quantity of quinine bark imported into Europe. Although the first attempt to grow the plant in the Mungpoo plantations has not been quite successful, Dr. King entertains hopes of successfully acclimatizing it, when he is able to procure a more adequate supply of seed. The Lieutenant-Governor will await the result of the experiment with much interest. The surplus seed of the Caisaya Ledgeriana was as usual distributed during the year gratuitously amongst applicants.

6. Dr. King has eventually succeeded in obtaining an analysis of the bark renewed on Succirubra trees that had their original bark removed by the shaving process introduced by Mr. Moens, the distinguished Director of Cinchona Cultivation to the Dutch Government. It appears that this process consists in shaving off the greater part of the bark of a living tree to the height of from eight to ten feet from the ground, care being taken to leave everywhere a sufficiently thick layer of bark to cover the wood. This method has had a

fair trial on the Sikkim plantations, and the result has, beyond doubt, been favourable, as the bark renews perfectly. What, however, remained to be seen was whether the renewed bark was as rich in medicinal alkaloids as the original. It was with the object of determining this question that the analysis above referred to was undertaken during the year. The results are thus described by Dr. King: "The bark renewed rather slowly, but the analysis shows that it is very rich both in quinine and cinchonidine; and there can be no doubt that in countries where red bark trees are perfectly at home, and where their continuance in good health and vigour for a long series of years can be absolutely counted on, this shaving process must be a very excellent one."

7. An interesting feature in the operations of the year is the low cost at which the febrifuge was turned out. The price of the febrifuge necessarily fluctuates from year to year, but in no former year has it been so low as Rs. 8-S a pound. This satisfactory result is attributed chiefly to the larger percentage of the alkaloids (2.73) extracted from the bark used in manufacture. The issues, however, fell below those of 1881-82, though they were a little in advance of those for 1880-81. The following table compares the distribution in the past three years:—

The state of the s	-							
			1880-8	81.	1881-	82.	1882-8	33.
			lb.	oz.	B.	oz.	fb.	oz.
To Medical Depôt, Calcutta			3,000	0	3,386	0	2,000	0
Ditto, Bombay		200	2,000	0	1,000	0	1,000	0
Ditto, Madras			500	0	800	0	350	0
To Colonial Government, Ma	uritius		*****				150	0
To Surgeon-General for D	istrict Me	dical						
Officers of Bengal		***			995	4	803	12
To Inspector-General of J	Jails for	jails						
and lock-ups, Bengal					14	12	26	12
Sold to the public			3,150	11	4,680	0	4,560	12
Given as samples			3	2	2	9		0
				_	0.00			19
T	otal	***	8,653	13	10,878	9	8,901	4
	the second second							70.0

The issues to the public were 120 pounds below those of 1881-82, and not in excess of that year as stated in the Superintendent's report. The stock of febrifuge in hand on 31st March 1883 amounted to $2.962\frac{1}{4}$ pounds, which, though greater than that with which the year opened, is by no means too large a reserve to meet emergencies.

8. The revenue derived from the sale of the febrifuge, seed, plants, and bark amounted to Rs. 1,52,807-1-0—

The state of the s		Rs	A.	P.	
By sale of febrifuge, seed, plants, and bark to the public		80,577	9	0	
By credits from the Medical Depôt of Calcutta		33,766	0	0	
Ditto ditto of Bombay		16,500	0	0	
Ditto ditto of Madras		5,775	0	0	
Ditto from Colonial Government of Mauritius	***	2,475	0	0	
Ditto from the Surgeon-General, Bengal		13,271	8	0	
Ditto from the Inspector-General, Jails	***	442	0	0	
	17	CHIEF THE	14000	-	
Total	***	1,52,807	1	0	
		and the second second second			

The operations of the year resulted in a profit of Rs. 66,284-9-5, which is equal to a dividend of $6\frac{1}{2}$ per cent on the capital outlay. This is exclusive of the cost of a considerable quantity of the bark sent to the Secretary of State which has not been taken into account. It must, moreover, be borne in mind that these profits do not represent the whole of the gain of the year. The cost of an equal quantity of quinine at Rs. 96 per pound would have been Rs. 4,01,328. The cost of the febrifuge used was Rs. 68,988-8. There was thus a saving of Rs. 3,32,340. The total saving effected since the opening of the factory by the substitution of the febrifuge for sulphate of quinine amounts to Rs. $23\frac{1}{4}$ lakhs, which is more than twice the amount of the cost of the plantations.

9. Considerable attention was given during the year to the improvement of the process of manufacture. The present system is admittedly wasteful, in that it fails to convert into febrifuge the whole of the alkaloids which the bark contains, while there is no doubt that, by the adoption of a different and more costly process of manufacture, a still larger percentage of the

medicinal alkaloids could be extracted. It is not, however, equally certain whether the febrifuge so obtained could be turned out at a less cost per pound. The whole subject of the course to be adopted in the disposal of the raw produce of the plantations is still under the consideration of Government.

10. The thanks of the Lieutenant-Governor are again due to Dr. King, whose management of his department leaves nothing to be desired. Dr. King has reported very favourably of the services of Mr. Gammie, and the Lieutenant-Governor entirely concurs in the praise accorded to him. The other assistants of the Department are also well spoken of.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE METEOROLOGICAL DEPARTMENT DURING THE YEAR 1882-83.

REVENUE DEPARTMENT-MISCELLANEOUS, Calcutta, the 17th July 1883. RESOLUTION.

READ-

The Report of the Meteorological Reporter to the Government of Bengal, on the Administration of the Meteorological Department during the year 1882-83.

THE Lieutenant-Governor desires to thank Mr Eliot for his interesting report. Mr. Eliot has not only adequately described the changes recently introduced for extending the observations of the department and for improving the weather report, but he has also furnished a full account of the work done during the year. As Mr. Eliot's report is, therefore, of more than usual interest, the Lieutenant-Governor thinks it desirable that it should be published; and this Resolution will be mainly confined to a brief statement of the previous history of the department, with the view of completing the information contained in the report.

2. Up to the year 1865 the only regular observatory in Bengal was that attached to the Surveyor-General's Office in Calcutta, at which observations had been recorded hourly since 1853. An attempt was made in 1847 to obtain statistics of temperature and rainfall at all sudder stations, and returns were furnished for several years, but they were found to contain such grave discrepancies as to be useless for all practical purposes. destruction of life and property caused by the great Calcutta cyclone of the 5th October 1864 brought prominently to notice the necessity of bestowing greater attention on the study of the meteorology of the country, and in April 1865 the Lieutenant-Governor, Sir Cecil Beadon, appointed a Committee, with Mr. H. F. Blanford as Honorary Secretary, to establish a system of telegraphic reports, such as would serve to apprise the shipping of Calcutta of the approach of cyclonic disturbances.

• viz. Saugor Island. Cuttack. Chittagong. Akyab. Dacca and Darjeeling.

The Committee accordingly established six observing stations,* and started the publication of daily weather reports of the observations telegraphed from those stations. together with the observations taken at Calcutta, and others received from the Madras observatory and a private observer in Ceylon.

3. The preliminary arrangements of the system inaugurated by the Conmittee having been completed, it became necessary to entrust the further control of the work to a special officer, and in April 1867. Mr. Blanford was appointed Meteorological Reporter to the Government of Bengal, and the executive duties of the Committee were transferred to him The system continued to expand, additional stations were established, and further steps were taken for securing an efficient system of storm-signals and warnings for the town and shipping of Calcutta.

4. In 1871, in order to familiarise the local officers with the use of statistics, and with the observation of facts which every district officer ought care fully to watch in a country where such a surprise as the famine of 1866 was possible, Sir George Campbell prescribed the punctual submission of a weekly return of the state of the weather and prospects of the crops. The variations of rainfall and weather, and other statistics relating to the agriculture of the Province were regularly published in the Calcutta Gazette, and it was due to these returns that the want of rain in 1873 attracted timely notice, and that early measures were taken to meet the famine which followed it in 1874.

5. The work of the Meteorological Department received a further expansion in 1880 by the introduction, under the authority of the Government of India, of a scheme of Marine Meteorology. In furtherance of the work connected with this branch of the Department, data regarding the weather on Indian seas are now collected through the medium of Hooghly pilots, and, where available, the logs of vessels coming into the Port of Calcutta. An attempt to collect such data through masters of vessels was made in 1868, but the attempt did not succeed, and it was finally given up in 1875. The present system, however, gives promise of better results, as many of the returns received from the captains of incoming vessels are found to contain meteorological data of

great value.

6. The further measures which have now been taken for extending and improving the usefulness of the meteorological reports are detailed in Mr. Eliot's report. Up to the close of 1852-83 meteorological observations were taken at 21 observatories, and rainfall returns were received from 164 stations, but under the new system there will be 21 additional observatories, and 156 additional rainfall recording stations. All portions of the province will thus be brought under daily observation; and it is to be hoped that the facts which will by this means come upon record will enable a sufficient foundation to be laid for a trustworthy system of economic meteorology for Bengal. An improvement has also been made in the form and size of the daily weather reports, and these are now available at moderate charges for the information of the public.

ORDER.—Ordered that this Resolution, with a copy of the Meteorological Report for 1882-83, be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

A. P. MACDONNELL.

Offg. Secretary to the Government of Bengal.

ADMINISTRATION REPORT OF THE METEOROLOGICAL REPORTER TO THE GOVERNMENT OF BENGAL FOR THE YEAR 1882-83.

During the official year 1882-83, meteorological observations were taken regularly at one first class observatory, seven second class observatories, and twelve third class observatories in the provinces of Bengal and Assam. An additional third class observatory was established at Tura in the Garo Hills in the month of March 1883

During the year a series of changes was sanctioned by the Bengal and India Governments for extending the work of observation of the department, and for improving the publication of the meteorological data collected by the department for the information of the Government of Bengal, district officers, and the general public. As these changes very considerably extend and modify the department under my charge, it appears desirable to place on record a full statement of the reasons for the changes, and an account of

the circumstances under which they were made.

The origin of the proposals was a demi-official letter which I received from the Secretary to the Government of Bengal, Revenue Department, Mr. A. P. MacDonnell, on the 11th of August. In this he pointed out that the meteorological information published in the Gazette was not sufficient for the wants of the Bengal Secretariat, and asked if I could not arrange to publish weekly in the Gazette the meteorological observations taken over the province during the preceding week, together with a statement in which the more important meteorological features of the week should be clearly and prominently brought to the notice of Government and district officials. The attention of the Government of Bengal was particularly directed to the meteorology of Bengal and the working of the Bengal Meteorological Department at this time by the unusual lightness of the rains in Northern and North-Eastern Bengal. It was so serious at one time as to suggest the probability of a partial failure of the crops. The daily reports issued by the Meteorological Reporter to the Government of India gave very little information respecting this part of Bengal, and threw no light on the meteorological conditions of the district. The returns sent in to me by post and tabulated in the ordinary routine of the work of a small office did not shew until later that, although the rainfall was deficient and abnormal in character, this was due mainly to lightness of the rain showers and not to any diminution in the number of rainy days or in the amount of cloud. I replied to Mr. Secretary MacDonnell's letter on the 13th of August, admitting that the Bengal Meteorological Department was, in comparison with similar Meteorological Departments in European countries and the United States, very much behind hand in utilizing and publishing for the public benefit the meteorological data it collected. I pointed out that this part of the work of the department, " Economic Meteorology" as it might be termed, appeared to me to be of primary importance in India, and added that I should be willing, if the means were placed at my disposal, to use my utmost efforts to propose and establish an effective provincial meteorological system which should collect, tabulate, and publish, at frequent intervals, the results of the observations taken throughout the province at a sufficient number of stations to represent its more important meteorological conditions and changes adequately, together with a conparison of the current atmospheric conditions in Bengal with the normal meteorological conditions of the province, and to trace out, so far as I could, the connection between these variations in the elements of meteorological observation with the variations in the distribution of rainfall throughout the year. I also indicated roughly the more important changes it would be necessary to make in order to establish and develop a provincial system of meteorological observation which should keep the Government fully informed of the present meteorological conditions of the province and their variations from the normal conditions. Mr. Secretary MacDonnell replied demi-officially to this on the 29th of October, stating that I had correctly estimated and described what was required to improve the meteorological information supplied by my department, and that the Lieutenant-Governor approved the objects aimed at, and the general outline of the proposals I had suggested to secure these objects, and requested me to come up to Government officially on the matter, and submit my proposals with the necessary fulness, and to state the modifications it would be necessary to introduce into the existing establishment and practice of the department.

existing establishment and practice of the department.

I spent a part of the College cold-weather vacation in collecting information, and finally submitted my proposals to the Government of Bengal on the 29th of December. The following extracts (with some slight modifications and change of verbal expression) will indicate the objects aimed at, and the

character of the proposals :-

"The Meteorological Departments in India ought to carry out two objects differing considerably in character and value. The first is that of contributing a share towards the advancement of meteorology as a science, i.e. of the determination of the exact relations which subsist between the various atmospheric conditions and changes and the effective causes or actions. India is the only tropical country which possesses a fairly complete and satisfactory meteorological system for this purpose. It also presents, from its geographical position, many unique meteorological conditions and features of great scientific interest and value. It is thus qualified to play a very important part in the progress of scientific meteorology. This it can do by collecting and publishing accurate observations, taken under suitable conditions, and also by discussing them in a scientific manner and distributing the results of its investigations to meteorologists over the world. This appears to me to be the work to which the Meteorological Reporter to the Government of India and his scientific assistant (lately appointed) are mainly devoting themselves, and to which they make the local reporters subservient. It is evident that it is immaterial whether the relations they are in search of are determined from observations of a day or a century ago, provided they are known to be accurate and reliable, and the investigations are exact. Rapidity in the collection and discussion of the observations is obviously not desirable, and might be

dangerous as leading to hasty and perhaps erroneous conclusions,

"The second object of the Meteorological Department is less important from a scientific aspect, but is of supreme importance economically in a country like India, which is dependent for its prosperity almost entirely upon its agricultural resources and productions, and where the fluctuations of rainfall are so great as to subject a large part of the country to the occasional occurrence of prolonged drought and intense famine. This second branch of meteorological work in India is to publish, for the information of the Government, and all others directly interested in it, frequent statements of the present meteorological conditions of the country and its variation from the average conditions, and, so far as is possible, anticipations of any impending important atmospheric disturbance. This it can only do by the rapid and continuous collection, tabulation, and discussion of the observations taken at the various reporting stations. This continuous consideration of the weather, as it is at the present moment, will alone furnish the experience, methods and instincts necessary to consider it as the invariable antecedent of the weather to come. This will gradually lead up in the case of Indian meteorological enquiry to the true test and the ultimate aim of every science—prevision more or less perfect. An early step in such a direction, for example, would be to previse the general character of the distribution of the monsoon rains from the atmospheric conditions of the preceding hot-weather months. This which may be termed "economic meteorology" in opposition to the first or "scientific meteorology," is of as great importance to the Local Governments as to the Imperial Government. It is included in the programme of the Meteorological Reporter to the Government of India. The publication of his daily weather report supplies sufficient information to satisfy the present requirements of the Government of India. But this report is published at too frequent intervals for the guidance of officials in Bengal, the remarks are very brief and general, and are especially defective in the most important point, viz. the distribution of rainfall in each province, more especially during the south-west monsoon, and are practically of no great value for the information and guidance of the Government of Bengal. This branch of meteorological work in India was the subject of special recommendation by the Famine Commissioners, as is shewn by the following quotation (vide Report, Part I, paragraph 40):-

"Within the last few years a very satisfactory system of meteorological observations has been established all over British India, and in our opinion it is of primary importance that it shall be maintained in complete efficiency, and shall so far be strengthened and improved, as to ensure the early and punctual supply of information to the Executive Governments, and to the officials in all departments concerned with the agriculture of the country, or the preparations required to meet famines, as to the actual progress of the periodical seasons of rain in all parts of the provinces for which those Governments or officers are respectively responsible. So far as it may become possible, with the advance of knowledge, to form a forecast of the future, such aids should be made use of, though with due caution."

"This early and punctual supply of meteorological information is moreover, as General Strachey pointed out to me a few years ago, that part of meteorological work which the Local Governments ought not merely to encourage, but to promote, and which is more especially the province of the Local Reporters

as opposed to the Imperial Reporter.

"The work proposed to me to carry out is identical in its general character with that stated by the Famine Commissioners to be one of the most important duties of the Meteorological Department, viz. the early and punctual supply of accurate meteorological information to the Executive Government and district and other officials. The extensions that I desire to submit to the Government of Bengal have this solely for their object. They provide for the daily submission of observations taken at 10 A. M. at 38 stations distributed throughout the province, and of rainfall returns from about 156 additional stations, and for their rapid continuous reduction, tabulation, and discussion in the Bengal Meteorological Office. The complete rainfail returns of the province I propose shall in future be considered at the same time and in conjunction with the meteorological observations. This will be effected by linking to each meteorological observatory the adjacent rainfall recording stations. By this mode of treatment I hope to determine all the more important meteorological features of each district, which will thus be represented by a group of one or two observing stations and several rainfall stations. In this way, more especially, the amount, distribution, and variation from the mean, of the rainfail throughout the province, can be approximately gauged week by week, month by month, or season by season, and be recorded in the speediest and most exact manner for the information of Government.

"The present meteorological system established in Bengal appears, with the above objects in view, to be defective in the following respects:—

"1st.—The stations are too few in number to represent adequately the province of Bengal. They are in all fourteen stations for the whole of Bengal, Behar, Chutia Nagpore, and Orissa, including an area of 205,000 square miles. Of these stations two—False Point and Saugor Island on the seaboard—are maintained solely in connection with the Calcutta Storm Signal Service. The province of Bengal, occupying an area nearly twice as large as the British Islands, is represented meteorologically, for agricultural and economic purposes, by only twelve stations. The weekly agricultural and weather report of the British Island, published by the English Meteorological Office, is based on the meteorological returns of 66 stations, and I am informed that even that number of stations is considered insufficient. In making this comparison, I do not wish to assert that observing stations should be as thickly spread in India, as in England, to give the same extent of information of weather conditions and changes. The weather in Bengal is undoubtedly much more uniform than in the British Islands. Irregularities of atmospheric conditions are also usually of a much simpler and more persistent character. Even taking these facts into consideration, it appears to me that Bengal is by no means sufficiently represented by its present twelve meteorological stations.

"2nd.—The present observatories are by no means equally distributed throughout the province. Large and important districts, from an agricultural point of view, are almost, if not entirely, unrepresented. The most, glaring example of this is Northern Bengal. The whole of the Bengal plains to the east of Purneah and to the north of Berhampore, Jessore, and Dacca, comprising, I believe, the entire jute-producing districts of India, does not

possess a single observatory. The more eastern districts are to a certain extent represented by Dhubri and Silchar. It appears, however, not too much to assert that Northern Bengal as a whole is unrepresented in our meteorological system at the present time. Similarly, the whole of the southern districts of Chutia Nagpore, and the Midnapore and Balasore districts, are outside the

range of observation of the existing stations.
"3rd.—The present system of twelve stations, which, even if it were in perfect order, would be insufficient to represent Bengal, is really, in consequence of a third defect, less efficient than it appears. Native observers, in consequence of their imperfect scientific instincts, and of the very slight scientific training given in Indian schools and colleges, are frequently inaccurate. And even if they have been carefully trained, many of them are liable to lapse into careless and erroneous methods. Frequent inspection at unexpected times, and more especially when the returns themselves indicate errors, more or less continuous, is an absolute necessity. Yet this, under the present system, is an impossibility in Bengal. I am bound down to Calcutta without a day's intermission for practically ten months of the year by the combination of my college duties, my storm signal and daily weather report work, and by the charge of the India Weather Office during the absence of the Reporter to the Government of India in Simla. I can only leave Calcutta on inspection duty for a short period during the cold season. Defects, observational or instrumental, may hence be prolonged for months, and even years, without detection. This defect is a very serious one. Each succeeding year's tour of inspection impresses it upon me more strongly.

"4th -The present mode of collecting, reducing, and discussing the meteorological observations is dilatory and unsatisfactory. If the sole object of the department were the collection and publication of accurate observations for the information of European Meteorologists, it would be unobjectionable. As pointed out by the Famine Commissioners, early and exact meteorological information is at all times valuable to the Government and district officers of Bengal, and occasionally it is a pressing necessity; and yet it is hardly too much to state that the Bengal Reporter can furnish to the Provincial Government fuller and later information of the meteorology of any portion of the British Islands than he can of the greater part of Bengal. It is not necessary to state fully the causes of this. It is sufficient to state that the present system has tended to centralization rather than to development; hence it is the Government of India that has mainly profited by the recent changes. The Provincial Government of Bengal is not as yet furnished with the early and punctual supply of meteorological information which it requires.

"The proposals aim at the removal of the defects enumerated in the preceding paragraphs, and at the carrying out of the object proposed :-

"1st.-By the establishment of additional observatories. "2nd.—By the extension of the work of inspection. "3rd .- By the increase of my office establishment.

"4th.-By frequent publication of returns.

"I propose in future meteorological reports and discussions to divide Bengal into seven areas, each of which will be a fairly homogeneous area, and differ from the others in its meteorological features, more especially the amount and distribution of its rainfall. Each of these areas will be represented by three to seven observing stations, giving all the meteorological features, except rainfall, with sufficient fulness for present purposes. The rainfall will be determined by these observing stations and the 156 additional rainfall recording stations, three to five of which will be linked to each observing station so as to enable the rainfall of the district represented meteorologically by the observing station to be approximately determined.

"The seven meteorological areas I propose are-

"1st-Orissa.

"2nd-South-West Bengal, including the Burdwan and Presidency

"3rd-East Bengal, including the Dacca and Chittagong Divisions. "4th-North Bengal, including the Rajshahye and Cooch Behar Divisions.

"5th-North Behar, including the districts of Behar north of the Ganges.

"6th-South Behar, including the districts of Behar south of the Ganges.

"7th-Chutia Nagpore.

"In order to assign an adequate number of observing stations, it will be necessary to increase the present number very considerably. This I propose to effect through the agency of the Public Works Department, which has been most freely offered for the extension. I am informed by Major Neill, Assistant Secretary, Public Works Department, that observations are taken at Buxar, Arrah, and Dehree, and that they could be taken at a large number of stations by overseers. These men are specially qualified by their training in surveying to read such instruments as the barometer, and would make valuable observers.

"The following are the stations which I have selected from the list given me by Major Neill where observatories could be established and the work of observation properly carried on through the agency of the Public Works

Department :-

Motihari.
Ranchi.
Chyebassa.
Balasore.
Midnapore.
Raneegunge.
Nya Doomka.
Bhagulpore.
Julpigori.

Rungpore.
Dinagepore.
Serajgunge.
Mymensingh.
Furreedpore.
Commillah.
Noakholly.
Burrisal.
Rampore Boalia.

Chupra.

"These, with the two stations of Buxar and Dehree, would give 21 additional observatories. This extension will necessitate the immediate erection

of 19 observing sheds.

"The Public Works Department, in making the offer of the services of these overseers as observers, did not contemplate that they should receive any remuneration, and I am not therefore prepared to urge upon Government its absolute necessity. On the other hand, a small monthly allowance will not only give them a tangible interest in their meteorological work, but also furnish me with some hold upon them for the proper performance of their meteorological duties. There wou'd thus be a reasonable probability of the additional observations being fairly trustworthy and accurate, and equal in value to those taken at our present observatories. My past experience shows that this would almost certainly not be the case if this additional work (not a part of their recognized duties) were imposed upon them without any remuneration. The monthly allowances would be granted conditional upon the punctual and accurate performance of their meteorological duties during the month, as tested by the returns received from them in my office. As the work would be less than at our present third class observing stations, I would suggest that these fourth class observers be granted allowances of ten rupees monthly. This will necessitate a yearly grant of Rs. 2,520. If these proposals be sanctioned, they will, I believe, give the department the increased power of observation, which appears to me necessary in the most effective and economical manner possible, and will remove almost entirely the first and second defects of the present system.

"As my meteorological duties are increasing year by year, I am unable to suggest any feasible plan which will enable me to inspect the observatories at any time throughout the year, whenever it may appear desirable or necessary. I would therefore suggest the appointment of a native inspector on Rs. 50 rising to Rs. 60 per mensem. It will be possible for this amount to obtain the services of a man who has been trained at the Seebpore or Roorkee Engineering College in the use of instruments, and has learnt to draw and chart neatly. He would supply a double want in the Bengal Office. Whenever the returns received indicated continued instrumental or observational defects at any station, he would be sent there to ascertain the causes of the errors, and thus enable me to remove them without unnecessary delay. When in Calcutta, he would be employed in preparing the various charts that

will be required to enable me to prepare the weekly reports. He would also be very useful during the first year of the extension in teaching the new observers of the Public Works Department their meteorological duties. As I do not propose to diminish my own work of inspection during the cold weather, which I consider indispensably necessary to the maintenance of the stations in a state of efficiency, it will also be necessary to provide for the travelling expenses of the native inspector. These, I estimate, will not exceed Rs. 400, which I would therefore ask Government to sanction in addition to

his pay."

I have already stated that in future it appears to me desirable the rainfall returns should be considered and discussed in connection with the meteorological observations. The first essential for early publication of meteorological results is rapid transmission of the observations to the central office. Hence in all cases where it is possible, the 10 A.M. meteorological observations will be despatched to Calcutta by weather telegrams. At those observing stations where there is no telegraph office, the 10 A M. observations taken daily will be sent by the first dak after each observation to Calcutta by means of postal cards. The observations will be reduced and tabulat d in my office as they arrive. Of the 38 stations under the extended scheme, 29 can communicate by telegraph at the present time; and with the probable early extension of roil and telegraphic communication to Jessore, Burrisal, Mymensing, and Chutia Nagpore, the number will increase, so that in a few years a fairly complete daily weather report for the whole province may be prepared from the weather telegrams. The majority of the stations which can communicate with the central office by post only are in Eastern Bengal; and hence the information of that part of the province will be for some time more imperfect and behindhand than for the remainder of this province.

All rainfall-reporting stations will send in a daily return of rainfall by means of postal cards. They will also, in all cases, submit a weekly rainfall report by post-card as a check on the dilly returns in which mistakes from carelesness or haste may occasionally arise, or which may, in a few cases, be

lost in postal transmission.

Those sub-divisional stations which are at a greater distance than 48 hours dâk from Calcutta will telegraph either directly or from the nearest telegraphic station (for which special arrangements in each case will be made), with the object of completing the daily returns included in the weekly rainfall

report to be published in future in the Gazette.

It will there ore be seen that I propose to receive the various returns in all cases direct from the observing officers, and not, as at present, in the case of rainfall returns through the medium of a superior officer, as, for example, the Collector, the Civil Surgeon, &c. The delays in the submission of the rainfall returns under the present system are in some cases excessive, and are due to the transmission from the recording officers through other officials not directly interested in the rapid collection of the information. Of course, if it be desired, there is no reason why the Collectors, Civil Surgeons, &c., should not receive a copy of the rainfall returns sent in direct to me. If this part of the scheme be adopted—and it is the only means I can suggest for effecting the continuous rapid transmission of the necessary returns to my office—it would be very desirable that the Government of Bengal should issue a circular to the sub-divisional and other rainfall-recording officers, requesting them to carry out fully and exactly the instructions I shall issue for the transmission of their rainfall returns, and if judged desirable and unobjectionable, permitting me to place myself in direct communication with them in order to call attention to probable errors of observations or delays in transmission.

From the 15th of May to the 15th of November, a period which includes the whole of the south-west monsoon rain in Bengal, it is proposed to publish a daily weather report containing the observations taken at 10 a.m. and transmitted by ordinary or urgent weather telegram to Calcutta, together with a short summary of the more prominent features of the weather, its deviation from the normal weather of that day by a comparison with the average pressure and temperature of the day, and the important changes of the previous 24 hours, with, by-and-bye, anticipations of the weather throughout the province during the next 24 hours.

This will be printed at the Secretariat Press by 6 p.m. each day, and sent by post to Government officers, district officers, and to certain officers of the Public Works Department. It is also proposed to publish weekly in the Gazette two meteorological returns. The first will give the averages or totals of the elements of meteorological observation at the 38 reporting stations, and the average rainfall of the districts, represented meteorologically by each station, together with the variations of the pressure, temperature, and rainfall from the means for the period. The second return will give the daily rainfall at all the sub-divisional stations for the preceding week, and from which the average rainfall of the districts given in the other return will be derived. A summary will also be given, generally, similar in character to the weekly agricultural weather report issued by the English Meteorological Office. In this the important features of the weather will be brought to notice, and the distribution of rainfall with respect to time and place, and its variation from the normal rainfall, will be fully worked out.

In addition to this, it is also proposed to publish in the Gazette, for more general reference, the usual monthly averages of the elements of meteorological observation for the 38 observing stations, and the average rainfall of each district for the month, together with a short summary, stating briefly the more marked peculiarities of the meteorology of the month. A return will also be published in the beginning of every month, giving the daily rainfall of the 162 sub-divisional stations for the preceding month. This will be to a large extent a reproduction of the weekly rainfall returns, but it will contain all returns not received in time to be included in the corresponding weekly reports. Also any errors which may be detected during the month in the printed weekly rainfall returns will be eliminated, so that the monthly rainfall return will be the final, complete and corrected publication of the rainfall for the period in question.

Forms embodying these objects have been drawn up and submitted to the Government of Bengal. They have been accepted after a few modifications, and will be adopted for the present, and until experience of the working of the new scheme shews what improvements it may be desirable to make in them.

The extensions which I proposed supplemented the existing arrangements. and I had consulted with the Meteorological Reporter to the Government of India, who approved generally of the scheme. As the Meteorological Department is on the Imperial Establishment, it was necessary for the Government of Bengal to submit the proposals to the Government of India for sanction, and to indicate the sources from which the additional expenditure was to be met. This was done in Mr. Secretary MacDonnell's letter No. 294-68Mis.F. dated the 29th January 1883, to the Government of India, Revenue and Agricultural Department, in which he stated that, "finding the present Bengal meteorological reports inadequate for the purpose of administration in this province, the Lieutenant-Governor called on Mr. Eliot to prepare and submit a scheme calculated to afford this Government that detailed information regarding the meteorological conditions of all parts of this province, of which it now feels the want. This scheme Mr. Eliot submits in the papers herewith forwarded, and the Lieutenant-Governor requests that His Excellency the Governor-General in Council may be moved to sanction the adoption experimentally of Mr. Eliot's proposals in this presidency. It will be observed that the proposals now submitted are purely supplementary of existing arrangements which they in no way modify, and may be at any time annulled without any disturbance of the latter. The entire cost of the improvements will fall on Provincial Revenues. I am to add that any conditions as to control, &c., the Government of India may think it, in the interests of the Imperial Meteorological Department, necessary to impose, will be readily accepted by this Government."

The Government of India replied that it was willing to accept these proposals, and sanctioned the scheme which had been prepared with so much care by the Meteorological Reporter to the Government of Bengal. It was further stated that "such control as may be necessary will, in the interests of the Imperial Meteorological Department, be most conveniently exercised by the Meteorological Reporter to the Government of India. In view of this object, the Government of India considers that the cost of the scheme should be treated as a contribution from Provincial to Imperial funds, and that provision for this additional expenditure should be made in the estimates of the Meteorolo-

gical Department of the Government of India, with effect from the 1st April 1883. Unless His Honor the Lieutenant-Governor has any objection to urge to this proposal, it will forthwith be carried into effect."

The extensions are now being effected as rapidly as circumstances will

permit, and will be fully stated in next year's Administration Report.

Second Class Observatories .- These are seven in number, of which five are situated in Bengal and the remaining two in Assam. The following table gives the Superintendents and observers at these observatories during the past year :-

STATIONS.	Superintendents,	Superin- tendent's allowance.	Observers,	Observer's allowance.	Assistant observers.	Assistant observer's allowance,
		Rs.		Rs.	Contact to	Tarty and
Sibsagar	Dr. R. M. Meiklejohn (1).	30	Baboo Dandadhor Dutt Barua* (2.)	30	Baboo Rateneswar Gogoi.	10
Dhubri	" J. Mullane	30	Munshi Monirud- din Ahmed.**	30 }	Munshi Kadimud- din (3). Munshi Kafait	10
Banki- pore. {	" J. C. Shaw (4) " J. G. French (5)	30	Munshi Mohubbut Lal.	30	Ulla, Offg. Munshi Muddun mohun Lal.	10
Hazari- bagh.	" R. Cobb	30 {	Mahomed Ammeer	30	Nathoo Lal, (7)	10
bagn.		í	Nathoo Lal (8). Baboo Heralal Seal (10).	45	Dwarkanath (9) Nil.	- :::
Sangor	Nil		Mr. E. R. Swat- man (11).		Nil.	
Island.			Baboo Heralal Seal (12).		Nil.	•••
			Mr. A. J. Moth (13).		Nil.	174
and their	and organization and			1	Mr. H. W. Alley (14).	13
uttack	Nil		Mr. J. C. Smith†	32	Mr. S. Adams (15).	
116.00					Mr. H. W. Alley	
Chittagong	Nil		" E. Pereira (17) " P. O. Pereira	32	Mr. J. Dias	13

- (1) From 1st April to 15th September 1882, and from 28th October 1882 to 31st March 1883.

 (2) Was in charge of the observatory from 16th September to 27th October 1882.

 (3) On leave from 22nd July to 9th September 1882.
- 1882.
- (4) 1st April to 1st December 1882.
 (5) 2nd December 1882 to 31st March 1883.
 (6) 1st April to 27th June 1882 when he was dis-
- 7) 1st April to 27th June 1882.
 (8) 28th June 1882 to 31st March 1883.
 (9) Ditto ditto.
- (10) 1st April to 18th October 1882.
- (11) 19th October to 1st November 1882.
- (12) 2nd November 1882 to 20th January 1883
- (13)
- 21st January to 31st March 1883. 1st April to 4th July 1882. 5th to 15th July 1882.
- (15)
- 16th July 1882 to 31st March 1883. 1st April to 8th November 1882.
- (18) 9th November 1882 to 31st March 1883.

Five of these observatories are furnished with self-registering anemographs. There were one or two breaks in the working of these instruments during the year, which are detailed in the following table :-

STAT	IONS.		Date of commencement of work,	Periods during which instrument was out of order during 1882-83.
Dhubri Hazaribagh		::	18th March 1882 15th April 1880	From 17 hours 30th April to 17 hours 31st May 1882. Seventeen hours 30th November to 10th hours 15th December 1882.
Chittagong Saugor Island Cuttack		::	20th June 1879 9th February 1880 11th April 1879	1st April to 8th July 1882. 9th January to 22nd February 1883.

Three of these observatories, viz. Bankipore, Hazaribagh, and Cuttack, were visited during the cold weather.

Received special allowance of Rs. 5 per month for good services.
 Received special allowance of Rs. 10 per month for good services

Hazaribagh was reported on unfavourably last year. This, which was formerly one of the most satisfactory of the Bengal observing stations, had fallen off solely in consequence of the indolence and carelessness of the observer. He was fortunately detected by the Superintendent in recording and sending to the Meteorological Office inaccurate and false statements, and was consequently dismissed from Government employment. The second observer was then appointed first observer, and appears to have done his work satisfactorily throughout the past year. The observatory was inspected on the 8th December 1882. No change has been made in the position of the shed during the past year 1882-83, or of the instruments since my last visit in December 1881. The shed was clean and in good order. The anemograph tower required some slight repairs to make it watertight. These have since been made.

The instruments were generally clean and in proper working order. The only instruments which were not perfectly satisfactory were the wet and grass minima thermometers. In both of these the columns were badly broken. The instruments had, I was informed, given much trouble in this respect for some time previous. They were ordered to be replaced by new instruments. The anemograph was not working when I inspected the observatory, in consequence of the clock requiring cleaning. I found, however, that this instrument had been sadly neglected by the previous observer, and that it had not been in proper working condition for some months in consequence of two defects, both affecting the wind direction. The instrument had evidently not been cleaned or oiled for months. The gearing of the wind vane had consequently become rusted to such an extent as to make the vane immovable under the action of any wind of ordinary strength. The chain connecting it with the recording part of the instrument had also lengthened slightly, and was badly adjusted, and too slack to work properly. These defects were repaired, and the observer taught how to oil it and to take it to pieces. Full instructions were also given to him to oil and clean it at regular intervals. The defective condition of the anemograph was, I found, mainly, if not entirely, due to the neglect and indolence of the previous observer. The observer and assistant observer read the instruments carefully and accurately. The present observer is intelligent, takes much interest in his work, and sends in his returns regularly. Hazaribagh thus promises to regain its former character as an observing station.

The Bankipore observatory was inspected on the 20th and 21st of December. No change has been made in the position of the instruments since Mr. Pedler's visit. The shed is in good order and has been protected by a fence. Strong ladders have been built to give ready access to the anemometer and wind vane on the roof of the building. The barometer was examined, and a long series of comparisons made by the observer and myself with two secondary standard barometers. The comparison seemed to indicate that the instrument has a variable index error, and that the amount of its error was on the average of the observations made during my visit somewhat less than that assigned to it by the original comparison at Alipore. It was therefore replaced by one of the standard instruments, and ordered to be returned to Calcutta for 1 a careful examination and redetermination of its index error. All the instruments were, with the exception of the barometer, in good order, and very clean. This observatory has improved very much since Mr. Pedler's visit, and

is now in a satisfactory state.

The Cuttack observatory was inspected on the 11th of January. This observatory has been under the charge of Mr. Smith, Telegraph Master, for the past 11 years. I found the observatory in the same thoroughly satisfactory

condition as on my last visit two years previously.

The Cuttack, Dhubri, and Saugor Island observatories are the best of the second class observatories. I was unable to visit Dhubri during the year, but judging from the accuracy of the observations and the neatness of the returns, I am confident that it has improved considerably during the past year. The observer has, moreover, on more than one occasion, sent valuable series of observations taken during storms. As he has been observer for many years, and continues to shew increasing interest in his work, I have recommended him for the higher personal allowance of Rs. 10. Sibsaugor continues to work satisfactorily. Patna and Hazaribagh have both improved greatly, and may be considered as having regained their former character. The second class observatories are thus generally in a satisfactory condition and the observers are performing their duties accurately and honestly.

Eleven of these are maintained solely by Government, one (Durbhunga) is supported by the Rajah of Durbhunga, and another (Demagiri) is a voluntary observatory established under rules sanctioned by the Government of India.

Third class Observatories .- These were thirteen in number at the end of the year. Ten of them are in Bengal, one (Akyab) in Burma, and two (Silchar and Tura) in Assam. The Tura observatory was established during the year at the suggestion of the Assam Government, and promises to give useful information for the eastern half of the Garo Hill district.

The following table gives the list of the third class observatories, with the Superintendents and observers of each, during the year 1882-83:-

Third class Observatories.

STATIONS.	Superintendents.	Observers.	Observer's allowance.
			Rs.
Darjeeling, St. Paul School.	R. Carter, Esq., Rector, St. Paul's School.	Mr. W. Moore	25
Purneah .	Dr. Picachy {	Baboo Russick Lal Bose (1) " Rajanikanta Chackravarti (2) " Russick Lal Bose (3) "	15
Durbhunga	Baboo Gopal Chandra Bose (6)	" Jogin Chandra Banerjee.*	
Gya Berhampore .	. ,, R. MacLeod ,, S. M. Shircore	,, Nowrangee Lal ,, Mohendra Nath Roy†	15 15
Burdwan	{ ,, J. O'Brien (8) } } }	" Mokhoda Prosad Chowdhury+	15
Jessore .	. , D. W. D. Commins	,, Poresh Nath Chowdhury Mr. E. D. Shave (18)	15 25‡
011	. Nil	,, J. S. Davids (19) Baboo Romes Chandra Bhadra	15 15
Demagiri .	. Nil	,, Nobin Chandra Ghose (10) Bhagarath Barmah (11) ,, Surjya Kumar Ghose (12)	Nil
False Point .	. Nil	,, Surjya Kumar Ghose (12)) Vir. E. Workman (13) , J. M. Bennett (14)	25 25
Akyab .	Nil	, P. G. Pote (15)	15***
Tura	. Civil Medical Officer	,, R. J. Keys (17)	15
(2) 17th July t (3) 1st Nover (4) 1st April (5) 14th Decer (6) 7th Marcl (7) 17th Marcl (8) 1st April (9) 25th Octob (10) 1st April	o 16th July 1882. b 31st October 1882. ber 1882 to 31st March 1883, ber 1882 to 6th March 1883. ber 1882 to 6th March 1883. b 16 16th March 1883. b 24th October 1882. c 1882 to 31st March 1883. c 9th December 1882. ber 1882 to 11th January 1883.	(12) 12th January to 31st March 1883. (13) 7th August 1882 to 31st March 1 (14) 1st to 3rd April 1882. (15) 4th to 18th April 1882, and 4th 8th September 1882 to 15th 1883, and 22nd February March 1883. (17) 19th May to 3rd June 1882, February to 21st February 1 (18) 1st April to 28th December 1882	June to February to 31st and 16th 883.

(19)• Received special allowance of Rs. 5 per month.

Ditto ditto , 10 ,

From 28th December 1882.

of th September 1882.

I was able to visit the whole of the third class observatories during the College cold-weather vacations, with the exception of Jessore, Silchar, and Akyab. No change was made during the past year in the character of the observations or the condition of the observatories. My opinion of them is unchanged. Some of them are quite equal to the second class observatories as regards the accuracy and value of their observations. In others occasional carelessness and neglect of the instructions laid down in the Vade Mecum diminish very considerably the value of the observations, and introduce an element of doubt into the results of their work.

28th December 1882 to 31st March 1883.

The following accounts of the observatories which were visited during the

cold weather are taken from my inspection reports:-

"I visited the Darjeeling observatory on the 16th and 17th of November The shed was in capital condition; the instruments clean and in good order, and properly placed. The Casella's anemograph had been properly placed in position before my visit in November. The shed in which it is placed is on a fine open site on the top of a hill above St. Paul's School. When I was there the air was perfectly calm, so that I had no opportunity of seeing the instrument working under ordinary conditions. I examined it carefully and made several changes. It has been working since, and the observer, Mr. Moore, has spent much time, labour, and ingenuity in endeavouring to make it work successfully, but the results are not altogether satisfactory. The traces received lately are sufficiently distinct to enable them to be used for the determination of the elements of wind observation. So far as I can judge, the instrument is not a good one, and I should prefer to see it replaced by a Beckley's anemograph, which gives a continuous record. Experience appears to shew

that the Beckley's is easier to work and less liable to derangement.

"The Purneah observatory was inspected on the 23rd, 24th, and 25th of December 1882. The shed is on the same site as it occupied on my last visit two years ago. I found that the foundations of a house for the jailor had been laid within a few feet of the observatory, and the building itself would be shortly erected. It was therefore necessary to give orders for the early removal of the observatory. A suitable site was selected where the conditions of exposure are almost identical with those of the present observatory. The shed itself was in fair order. No repairs had been made for some time in view of its removal to another site. The thermometers were all clean and in good order. The barometer was in the same room as two years ago. As the light in it is bad, I removed the barometer to an adjacent room at the same level, and where it is in good light. The barometer was carefully compared at the dak bungalow by myself, and its index error was ascertained to be The wind vane and anemometer are well placed. They were slightly stiff in consequence of not being oiled frequently enough. The anemometer was carefully oiled and cleaned, and the observer instructed how to keep it in proper condition. He read the anemometer somewhat imperfectly. This was partly due to his having overlooked the instructions in the Vade Mecum. He learnt quickly, and I hope the anometer observations at this station will in future be exact. The observer is intelligent and punctual in his work, in which he appears to take much interest. The observatory, on the whole, is in a satisfactory condition.

"Durbhunga was inspected on the 20th and 21st of December 1882. I arrived at the observatory at 4-7 P.M. by the dispensary clock, and found the observer there. On enquiring about the 4 P.M. observations, I was shewn the

following entries for that day :-

	Labor and		10h.	16h.	18h.
Barometer			30.130	29:030	
Attached thermo	meter		-66 5	71	
Dry bulb		****	67	74	e Comornio al Maria
Wet "			62	65	
Dry max.	***		*****		74.8
" min.	***		54.5	100000000000000000000000000000000000000	THE RESERVE OF THE PARTY OF
Wet "	***	***	53.5	*****	a sharing a substitute of
Grass ,,	Aller March	***	41.5	*****	
Sun max.	•••		******	******	118
Anemometer	***	***	248.4	265.8	
Wind direction	***		22	22	The second second

The observer was then asked to read the barometer, and stated that it was 29.980. I read it myself and found it to be 29.968. The reading entered in the form B, even if corrected to 30.030, was thus erroneous. The observer then endeavoured to excuse himself by asserting that he had been at the Magistrate's court and that an assistant had taken the readings. As it was unnecessary for me to ascertain more than I did (viz. that the observations at Durbhunga on this day, and probably, as indicated by the returns, for some time previous, had been taken in an exceedingly careless and irregular manner, and that little or no attention has been paid to the various instructions and orders issued from time to time for his guidance), I made no attempt to verify his statements. No excuse whatever can be admitted in extenuation of the offence of entering the observations as having been taken at the exact times noted, when, in reality, they have been knowingly taken at

some other entirely different hour. In addition to the evident mistakes in the 4 P.M. readings, observations purporting to be taken at 6 P.M. had been taken at or before 4 P.M.

The condition of the observatory indicated great carelessness on the part of the observer. The thermometers were in very fair order, except that they were generally somewhat dirty. The minimum wet bulb and ordinary wet

bulb were covered with a thickish encrustation.

The wind vane worked slowly and heavily. This was accounted for by the fact that it had not been oiled for some months. The anemometer was excessively dirty, and was covered with dust inside and outside. No oil had been given to it for months. In consequence of the dust and want of oil, the instrument moved with much friction. It is evident that the anemometer observa-tions have been of little value for some time past. The Durbhunga observer was informed that carelessness in observation, or laxity with regard to hours of observations, once clearly detected in an observer, throws a doubt for a long time over future observations, and that it would therefore take long for him to thoroughly re-establish a character for accurate work; and was informed that he would probably lose his personal allowance of Rs. 5 per mensem.' referred the matter to Mr. Blanford, explaining to him the peculiar condition of the observatory and the promise of the observer to do good honest work in future. He requested me to fine the observer ten rupees as a mark of his serious displeasure, and to warn him that the detection of my similar faults in the future will be certainly followed by the withdrawal of the personal

Gya was inspected on the 11th and 12th of December 1882. No change has been made in the position of the instruments since my last visit, and the shed was in perfect order. The barometer was carefully examined, as the barometric observations had been unsatisfactory for some time. The readings for some months, as indicated by the observations at the neighbouring stations, had been much too high. A long and careful comparison made by myself at the dak bungalow proved that no change had taken place in the index error of the instrument since its issue to Gya. I, however, found, when the observer was asked to take a reading of the instrument, that he immersed the fiducial point well into the mercury in the cistern, instead of setting it so as to touch exactly the mercurial surface. This error at once explained the high readings at Gya. I spent several hours in endeavouring to teach him to adjust the level of the mercury to the fiducial point, and in reading the instrument with fair results. The observer attributes his error in this respect, chiefly to failing sight. This was, however, not confirmed by the Civil Surgeon. It is therefore more probably due to carelessness, and he was warned on this point to be much more careful in future. The instruments were all in good order. The observer, I found, read the anemometer very imperfectly, and it was necessary to spend some time in training him to read it correctly. The condition of the Gya observatory, in consequence of these imperfections on the part of the observer, has been for some time far from satisfactory.

"Berhampore was inspected on the 28th of December 1882. The instruments have been housed in a new shed since my last visit. The shed is very neatly built and is in capital condition; the instruments were clean and in thoroughly good working order. This observatory is in almost every respect one of the best kept in Bengal, and reflects great credit on the observer, who is, I have every reason to believe, as accurate in his observations as he is

interested in the neat appearance of his observatory.

"Burdwan was inspected on the 29th December. I found both the shed and instruments in perfect order. The observatory is in thoroughly satisfactory condition and continues to maintain its high character."

Dacea was inspected at the end of November. The shed is situated in the compound of the Telegraph Office in a fairly exposed position. It was in good condition, and the instruments clean and in excellent order. This observatory was last visited by Mr. Pedler in December 1878, when it was favourably reported upon.

The observatory at False Point has been located at the Jumboo Telegraph Office for the past four years. This office was closed on the 25th of April 1882. No previous intimation was given to me of this change. The observations

at False Point were then suddenly broken off, and I was unable for some time at False Point were then suddenly broken on, and to make any arrangement, for the re-establishment of the observatory. In the make any arrangement, for the re-establishment of the observatory. This August the light-house was connected by telephone with Cuttack. enabled me to re-establish the observatory under its former conditions before its removal to Jumboo, and at the same time to preserve the advantage of telegraphic communication with Calcutta. It was not considered advisable to erect a shed until the cold weather. Mr. Workman, light-house keeper, took the greatest interest in its re-establishment at the light-house. He procured the instruments from Jumboo and placed the barometer in the lower room of the light-house and the thermometers temporarily in a verandah facing the north, and forwarded daily telegrams of the height of the barometer, wind, direction and force, rainfall, &c., from the 7th of August. I visited False Point in January, and in conjunction with Mr. Workman selected a suitable site for the new shed and for a pillar, on which to erect the wind vane and anemometer. This station is a very important one in connection with the Storm Signal Office, and it is to be regretted that the telephonic mode of communication usually fails during stormy weather. Mr. Workman informs me that he has frequently spent a couple of hours, shouting himself hourse, in endeavouring to communicate with Cuttack during windy and stormy weather. If the Telegraph Department could arrange to improve the communications between the light-house and Hookeytollah or Cuttack, the False Point observatory would be, under its present conditions, one of the most satisfactory and important of my observatories.

Of the third class observatories Berhampore, Burdwan, Dacca, Darjeeling, and False Point take first rank for the accuracy and value of their observations. Purneah is now a fairly satisfactory observatory. Silchar and Jessore I was unable to visit during the past year, and can only judge of them by their returns. So far as they indicate, these two observatories have improved during the year, more especially Jessore, the returns from which have been nearly

prepared and sent in with commendable regularity.

Durbhanga and Gya have been the most unsatisfactory of my stations during the past year. At Durbhanga the observer had allowed himself to fall into very careless habits and methods of observations, and I hope after the leniency shewn to him he will use every effort during the present year to submit accurate observations and keep his instruments in such a condition as

to be fit for inspection at any moment.

Akyab has been also a somewhat unsatisfactory station during the past year. I recorded my opinion in the Administration Report for 1881-82 that it was not quite satisfactory, as frequent mistakes were made in the transmission of weather telegrams. It is an important station from its position on the Arracan coast. I regret to have again to record that numerous mistakes have been made in the preparation of the weather telegrams, due either to haste or carelessness. In the month of August last ten of the thirty telegrams despatched were erroneous in one or more particulars. The ordinary returns also frequently c ntain errors, and it is only too probable that the carelessness shewn in the preparation of the telegrams and ordinary returns extends to the work of observation itself. It contrasts most unfavourably in these respects with Cuttack, Dacca, and Saugor Island, at all of which Telegraph Masters are observers.

Bainfall-recording stations.—Regular rainfall returns have been received during the past year from 164 sub-divisional stations. During the past year two stations—Segowlie and Baripore—have ceased to send in returns, as they are no longer sub-divisions; on the other hand rainfall returns were received during a part of the year from three new stations—Netrokona, Banki, and Hookeytollah (False Point). The number of stations submitting rainfall returns at the end of the official year was 162.

These returns were submitted in the great majority of cases punctually, and the monthly return of rainfall throughout the provinces for each month of the past year, prepared from these returns, was published in the Gazette on the

third or fourth week of the ensuing month,

Instruments.—The two following tables shew the number and kind of instruments that have been broken or lost or rendered unserviceable at the Bengal observatories during the year 1882-83, and of the instruments supplied

to the observatories to replace broken, deteriorated, or untrustworthy instru-

Return of Instruments broken or otherwise injured at the Observatories in Bengal and Assam,

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	STA	TIONS.			Barometer,	Dry.	Wet.	Dry maximum	Dry.	Wet.	Solar,	Grass.	Anemometer.	Wind vane.	Rain-gauge.	Measure glass.	Lens.	Clock.	Sand-plass
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ura	***			 ***	***		***	***	414			***	***	***	***	***			1
emagiri	***			 ***	***		***			***		***	***	***	***	***			1

(b) Cracked.

Return of Instrument, &c., issued to the Observatories in Bengal and Assam in 1882-83.

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ra (Garo Hi		***	444	***	***	(6) 1	(6) 1	(6) 1	(6) 1	212	***	310	***	(b) 1	191	****	(b) 1	***	
for stations		recordin	(2)		760	644			- 000	444	***	1431	49.6	110	***	- 6	410	100	1

Comparatively few instruments were broken during the year. At Gya the terrestrial radiation thermometer was broken to pieces by a stone thrown from a road outside the compound. An exposed grass radiation thermometer disappeared at Dhubri under circumstances which indicated that it had been probably stolen by coolies travelling up to the Assam tea gardens, a depôt for whom is within a few yards from the observatory. The instrument which was broken at Akyab is reported to have fallen by accident to the ground when it was being examined by the observer.

During my tour of inspection I condemned several instruments, more especially alcohol minimum thermometers, which frequently deteriorate rapidly in India, and ordered them to be replaced by new instruments. This, for example, explains the issue of thermometers to Hazaribagh, Berhampore, Patna,

and False Point. On the whole the instruments appear to have been carefully

looked after during the past year.

A third table is added (for the first time) showing the instruments that have been returned by the several observatories for various reasons and made over to the store of the Meteorological Reporter to the Government

Return of Instruments, &c., returned to store of the Meteorological Office, India, during 1882-83.

Stations. Stations. Satina	Barometer.	1. Dry.	1°	Dry maximum.	1° 1.	ı. Wet.	Solar.	Gruss.	te Anemometer	: : Wind vane.	: Rain-gange.	: : Measure glass.	: F Lens.	: : Clock,	1(a)	: Sand glass.	: Standard thermometer	Thermometer	
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kyab		***			444	1*			444	144	***	111			***	***		***	
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No change was made during the year in the ordinary routine of the office. The following returns have been prepared during the year for publication in the Calcutta Gazette:-

1st.—Monthly summaries of the meteorological observations taken at

twenty observatories in Bengal and Assam.

2nd.-Monthly statements of rainfall at 162 sub-divisional and other stations in Bengal, and in the same form as last year.

3rd.—A table shewing the monthly and total rainfall for the year 1882 at 162 stations in Bengal.

4th.—A table giving the average monthly and annual rainfall at 156 stations in Bengal, based on the rainfall returns up to 31st December 1882.

5th.-Comparison rainfall table for the year 1882, shewing the monthly and total variation of the rainfall of 1882 at 162 stations, from the mean rainfall given in the preceding table.

My time has been more fully occupied than usual during the past year, and I have thus had less leisure to devote to meteorological investigation apart

from the ordinary routine of my work.

I have nearly finished an analysis of the storm of October 1882, which possessed several features of interest. It occurred during the October transition period when there is a tendency for any vortex that is formed in the Bay to develop into an intense and severe cyclone. Although it formed at the most dangerous period during pre-existing conditions, which are known to be favourable to cyclonic formation of the Bay, some condition or action was absent, or very feebly developed, which prevented the storm acquiring great intensity. It was due to, and accompanied a large shallow depression with, moderately high gradients on the outskirts of the storm area. The aqueous vapour condensation, judging from the appearance of the sky during the storm, seems also to have taken place at a comparatively low level. It was economically chiefly remarkable as giving the heaviest and most general burst of rainfall to Bengal during the south-west mensoon of 1882.

ued from our store, but was found in the observatory store on inspection and brought down here.

In several respects it resembled the storm of September 1878, the account of which I drew up last year, and which was published during the present year as the first paper in the second volume of the meteorological memoirs.

I also took up for discussion all the storms which occurred in the Bay of Bengal during the period 1875 to 1880, of which there are records in the office, with a view to determine the relations between storm occurrence in the Bay and the general character of the monsoon, and also, if possible, the distribution of south-west monsoon storms in the Bay with respect to time and place.

This I find will take longer to work out than I originally expected, but I

hope to finish it in the course of the present year.

Storm signals.—In my last year's report I stated that I had submitted to the Government of Bengal proposals for the extension of the system of storm signals for warning the Port of Calcutta of the approach of cyclones. The original object of this part of the work of the Bengal Reporter was to forewarn the port of the approach of severe cyclones, such for example as those of 1864 and 1867, in order that captains of vessels, &c., might prepare for the advent of the attendant destructive storm-wave. Recent experience has, however, shown that, although severe cyclones accompanied by storm-waves are of comparatively rare occurrence at the head of the Bay, cyclonic storms of limited extent and intensity are, on the other hand, frequently formed during the rains, and are a source of danger to shipping entering or leaving the mouth of the river. The storm signals hitherto employed were only intended to give warning of the formation and approach of storms of the first kind; hence it became necessary, if the Department was to give warning of the advance of storms dangerous to shipping in or near the mouth of the river, as well as to shipping in the Port, to extend or modify the system of signals. This I did with the assistance of Mr. Elson, Master Pilot, in such a way as not only to differentiate between the intense cyclones of the transition periods, and the feebler cyclonic storms of the rains, but also to indicate roughly what part of the Bengal coast they are approaching and likely to cross. The Government of Bengal sanctioned the proposed signals on the 5th of August 1882.

The adoption of the new system of storm signals was duly notified in the Calcutta Gazette on the 9th August 1882. They were brought into operation almost immediately afterwards, and as soon as the new signals could be prepared and despatched to the signal stations. Signals giving warning of the existence of any dangerous storm near the head of the Bay will in future be hoisted for the information of the pilots, captains of vessels, &c., at Saugor Island, Mud Point, and Diamond Harbour. Signals will in future be hoisted in Calcutta only before the approach of a severe cyclone with a storm-wave of sufficient magnitude to be probably dangerous and destructive to shipping in the port. The storm signals in the port of Calcutta will be hoisted in the

following positions :-

1st .- On the Port Commissioners' office.

2nd.—On a flagstaff at Seebpore, nearly opposite to the Fort.

3rd.—On the yardarm of a flagstaff near the Government Dockyard, Kidderpore.

No severe cyclone occurred in the Bay during the year 1882. Six cyclonic vortices formed near the head of the Bay, and advanced across the Bengal or Orissa coast into the interior. These were—

1st.—Storm of June 8th to 17th, which ushered in the south-west monsoon. The centre crossed the Orissa coast on the 10th.

2nd.—Storm of 16th to 23rd of July. This crossed the Bengal coast near the mouth of the Hooghly on the 19th.

3rd.—Storm of 5th to the 14th of September, which crossed the Orissa coast between False Point and Balasore on the 7th.

4th.—Storm of the 14th to 19th of September, which advanced across the Orissa coast on the 16th.

5th.—Storm of the 26th of September to the 3rd of October. This crossed the Orissa coast on the 28th.

6th.—Storm of the 12th to 17th of October, which formed near the coast of the Northern Circars, crossed the Ganjam and Orissa coast, probably between Gopalpore and Pooree early on the morning of the 15th, and then proceeded northwards into Northern Bengal.

Four of these storms, viz. 2, 4, and 5, although accompanied with moderately strong winds and a rough sea, did not appear to be of sufficient intensity to justify the hoisting of the storm signals. Warning singals were hoisted for storms Nos. 3 and 6. On the approach of the 3rd storm bad weather signal No. 7 was hoisted on the 7th September at 12-30 p.m., intimating that a small cyclonic storm was advaning to the east of the Hooghly. This was changed on the receipt of further information to storm signal No. 8 at 7-30 a.m. of the 8th. The signals were taken down at 2 p.m. of the 9th. During the sixth storm, signal No. 5, intimating the existence of a storm which would cross the west coast south of False Point was hoisted at 2 p.m. of the 14th; the signals were taken down at noon of the 16th.

Daily Weather Reports.—These have been published during the past year in the same form as during the previous. They were supplied to 27 subscribers and to 23 Government officials at the commencement of the official year, and to 29 subscribers and 30 Government officials at the end of the year. The receipts during the year from subscriptions have covered the cost of printing and distributing the reports. There was a small balance of Rs. 105 at the end of the year, which was kept in hand in order to meet any charges for repairs to the lithographic presses.

The report has hitherto been published on an awkward, large-sized sheet of inferior paper which has detracted considerably from its appearance. By reducing the size of the form considerably, I have been able to obtain paper of much better quality for the report and chart. Through the courtesy of the Superintendent of the Lithographic Department of the T. G. Survey, I was supplied with a neat chart and form from which to prepare the daily reports. The report will thus in future (from May 15th) be issued in a neater and more compact form. Although the number of subscribers has not increased much, I believe the report and chart are found to be of use. I should be glad to see the number of subscribers increased, so that the subscription could be reduced from Rs. 2 per mensem to Rs. 12 per annum.

Marine Meteorology .- A fair amount of work has been done in this during the past year. The Government of India sanctioned additions to the previous office establishment with effect from the 1st of April. The work proposed to be done under this head consisted of two parts. The first is the discussion of the observations taken on board vessels navigating the Indian seas, collected by the Board of Trade in England some years ago, and made over to the Indian Meteorological Office; and the preparation of charts embodying the information given by these observations of the pressure, winds, currents, &c., in the Bay of Bengal and Arabian Sea. During the early part of the year the barometric observations were taken up with a view to determine the amount and character of the diurnal oscillation in the Bay. The curves have been worked out for all the months, excepting December, and are ready for publication whenever it may be considered desirable to do so. Shortly after Mr. Dallas, Scientific Assistant, come down to Calcutta from Simla, he took over the work of tabulating and charting the data. Four additional clerks were engaged. The barometric and wind data for January were gone through and tabulated, and the results charted. The second branch of the work of the Department is the collection of current meteorological data of the Bay of Bengal from every possible available source. Forms were prepared in accordance with suggestions made by the Port Officer. A supply of these is included in the papers handed by all pilots to the captains of vessels entering the river on taking piloting charge. A large number of captains have complied with the request of the Department to furnish extracts of meteorological data in these logs for the Bay of Bengal and Indian Sea. Three hundred and forty-five sets of returns were filled up and sent in to this office. Many of these are of great value, and shew that accurate meteorological observations are taken on board a fair proportion of the ships navigating the Bay of Bengal. The information contained in these has been extracted and entered in books for permanent record in such a way that the information for any one day is collected together. The information they give is also being added to the daily weather charts for India, prepared in the India Meteorological Office. I have not had time to go through this information as fully as I should have wished, but the extracts I have considered indicate clearly the general truth of what I had previously

surmised, viz. that the weather in the whole extent of the Bay, excluding the Andaman sea, is fairly indicated by the observations taken at the coast stations, and that the progress of every important storm may be traced and followed with more or less exactness almost from its origin, from the shore observations.

In addition to this information, observations with verified instruments have been taken at 10 A.M. and 4 P.M. on board the light vessels near the mouth of the Hooghly. The following gives the dates from which returns have been received during the past year:—

Meteor from May 1882.
Star ,, June ,,
Comet ,, August ,,
Mermaid ,, November ,,

The observations taken on board these vessels are, I have every reason to believe, after careful examination, to be accurate and trustworthy. They are very valuable as extending our knowledge of the meteorology of this part of India to a distance of 40 miles beyond the coast seawards.

FINANCE.

The following statement gives the total cost to the State of the Bengal Meteorological Department during the year 1882-83:—

			Rs.	Α.	P.	R	s.	A. P.
Meteorological Reporter			3,600	7.77	0	**		A
Office establishment		• • •	2,764		10			la Car
Office rent			900		0			
	are*	34.15	2,325	1	0			
Observers { Telegraph Mast	CIS		3,480		0			
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		Rs.	Α.	P.		Rs.	A.	P.
Contingent and office furniture		571	6	9				
Postage		507	9	0	13			
Telegraphic messages		9,646	3 4	0		100		
Travelling allowances		926		0				
				_	8.8	11,651	11	9
Author of the Tribal Control	Ob	servato	ries.					100
Building and repairs		478		9				
Contingent	The same	83	277.11	0				
Contingent		Ce	, ,	0		250	7=	0
				- 6		556	10	9
GRAND TOTAL						26,795	13	4

The total is Rs. 2,155 in excess of last year. This is, however, due almost entirely to increase in the nominal charges for telegraphic messages and postage. The weather telegrams for the use of the Calcutta Storm Signal Service were despatched throughout the year as "urgent." This caused the large increment under that head. The increased correspondence and circulation of the Bay of Bengal daily weather reports to Government officials explans the increment under the head "Postage." Building and repairs were well within the budget allowance in consequence mainly of the large expenditure under this head last year.

The statement does not include the cost of instruments supplied to the observatories by the Indian Meteorological Department, nor does it include the cost of stationery supplied to the central office, or of printing the various forms required by the office, nor of printing the meteorological returns published in the Gazette or otherwise.

JOHN ELIOT, M.A., F.M.S.,

METEOROLOGICAL OFFCE, BENGAL, The 30th May 1883. Meteorological Reporter to the Government of Bengal.

RETURNS OF JOINT STOCK COMPANIES FOR 1882-83.

No. I.

Statement showing the name and number on the Register borne by each Joint Stock Company registered in the Calcutta Registry Office, with its object, nominal capital, and date of registration, during the year ending 31st March 1883.

list,	Number borns by each Company on the General Re- rister.	NAME OF EACH COMPANY.	Object of each Company.	Date of Registration,	Nominal capital.	REMARKS
		7		24/2 15 4	Rs.	
1 2	434 435	Calcutts Ice Co., Ld T, F. Brown and Co., Ld	To manufacture ice	5th April 1882 5th	2,00,000 7,00,000	
3	486	Sheikh Ahmed and Co., Ld	To smelt iron	11th	1,00,000	
4	487	Ellenbarce Tea Co., Ld	To cultivate tea	25th	1,20,000	The state of the s
5	438	Bengal Purveying Co., Ld	To earry on the business of pur- veyors.	27th	5 ,000	
6	439	Northern Bengal Railway Co-operative Supply Association, Ld.		30th May "	6,000	
7	440	Co-operative Pharmacy Co., Ld	To carry on the business of chemists and druggists,	31st ,, ,,	50,000	
8	441	Reneguinge Ice Manufacturing	To manufacture ice	5th July "	40,000	
9	442	Messai Tea Co., Ld	To cultivate tes	5th ,, ,,	2,50,000	
10	443	Camperdown Pressing Co., Ld.	To press jute, cotton, &c	25th ,, ,,	5,00,000	
11	444	Titighar Paper Mills Co., Ld Imperial Ice Co., Ld	To manufacture paper	18th August "	6,00,000	
20 00	446	Orissa Coasting Steam Naviga-	To manufacture ice To navigate and carry cargo from	Oath	4,00,000	A STATE OF THE PARTY OF THE PAR
LO	200	tion Co., Ld.	port to port.	2001 0 0	3,00,000	
14	447	Kamptie Gwallie Tea Co., Ld	To cultivate tea	5th September	2,20,000	
5	448	Pashok Tea Co., Ld	To cultivate tea, &c	5th " "	2.50,000	
16	449	Gebra Tannery Co., Ld Calcutta Tanning Co., Ld	For tannink hides and skins	9th " "	1,50,000	
17	450 451	Hooghly Mills Co., Ld	To earry on the business of		13,50,000	
-			weavers, spinners, &c.	Licentes .		
9	452	Northern Bengal Tea Corporation.	To cultivate tea, &c	26th " "	1,25,000	I SHALL SE
10	453	Id.	To cuttivate tea	2010 3, 20	1,00,000 1	
1	454	Bengal Rice Mills Association, Ld.	Milling and preparing paddy and	17th October "	10,00,000	
12	455	Calcutta Steam Navigation Co., Ld.	To navigate in Bengal	8th November ,	1,50,000	100
3	456	British India Ice Co., Ld	To manufacture ice	15th ,, ,,	2,00,000	
4	457	Glencoe Ten Co., Ld	To cultivate tea	29th " "	75,000	hit the
5	458	Gurjang Jhora Tea Co., Ld	To cultivate tea, &c	2nd December	50,000	
16	459	Subtiguri Tea Co., Ld Phoolbaree Tea Co., Ld	To cultivate tea	2nd	1,00,000	
8	461	Kanknarrah Co., Ld	To carry on the business of weavers and spinners.	30th " "	14,00,000	
19	462	Calcutta Trades Association	To promote the interests of the	18th January 1883		
10	463	Darjeeling and Kurseong Hotel	Hotel-keeping	2nd February "	2,50,000	AVIEW
. 1	464	and Trading Co., Ld.	To cultivate tea			17177
2	465	Bagracote Tea Co., l.d Inland Flotilia Co., Ld	To navigute on the principal rivers of India and Burmah.	17th " "	50,00,000	- 31
3	466	Baintgooree Tea Co. (Dooars), Ld.	Mar and thomator to a	19th	200	
6		Chota Nagpur Banking Association Ld.	To carry on banking business	21st	75,000 20,000	in Africa Code
5	468	Nedeem Tes Co., Ld	To cultivate tea	1st March	9 00 000	
6	469	Barisal Trading Co., Ld	To trade in timbers	toth.	20,000	
7	470	Bengal Telephone Co., Ld	To construct telephonic lines	14th " "	10,00,000	
1	200			COLUMN TO THE REAL PROPERTY.		
1	- 1				1,60,63,000	-

No. II.

Statement showing the register number and names of Companies that have increased their capital during the year ending 31st March 1883.

Number on this	Register number borne by each Company.	DATE OF ORIGI REGISTRATIO		Amount of original capital.	Names of Companies.	Data of Increase.	Amount of increased capital,	Remarks.
	205	Light 21	120	Rs.	he a man similar way		Rs.	
1 2 3	393 381 386	21st February	1879 1876 1879	2,00,000 1,12,000 14,00,000	Indian Portland Cement Co., Ld Runglee Rungliot Tea Co., Ld Darjeeling and Himalayan Rullway Co., Ld.	15th June 1882 16th	4,50,000 28,100 3,50,000	
5 6	333 401 20	29th March	1876 1880 1858	\$0,000 *50,000 22,00,000	Jessore Loan Co., Ld Dacca Loan Office, Ld Bengal Coal Co., Ld	17th July 23rd August 16th September "	40,000 50,000 2,00,000	*By an over- sight shown
7	455		1882	1,50,000	Calentta Steam Navigation Co., Ld.	3rd January 1883	1,50,000 3,00,000	in former statement
8	419	18th September 30th May		1,00,000 6,000	Imperial Ice Co., Ld. Northern Bengal Railway Co-operative Supply Association, Ld.	29th January "	2,000	30,000.
10 11 12	288 268 114	23rd September 1	1874 1873 1863	14,00,000 50,000 3,00,000	Howrah Mils Co., Ld My mensing Loan Office, Ld	8th Pebruary 26th March 8th September 1881	3,50,000 80,000 2,00,000	By an over- sight not
2.9	A Park					CHECK A TANKSON	22,70,000	shown in 1891-82

No. III.

Statement showing the register number and names of Companies that have commenced winding up, have been finally dissolved, or are otherwise defunct, with their capital, dates of registration, winding up, or final dissolution, during the year ending 31st March 1883.

list.	Number borne by the Company on the Register.	NAMES OF COMPANIES.	Nominal capital.	Date of registration.	Date of winding up.	Date of final dissolution,	Date on which written off defunct.	REMARKS.
	(Back)	25 m	Rs.					
	215	Darjeeling Terai Tea Co., Ld.	1,00,000	28th Oct. 1867	30th May 1880	30th May 1882	The Prince	
4	402	New Oriental Jute	6,65,000	29th May 1880	2nd Aug. ,.	30th ,, ,,		
1	248	Jokai (Assam) Tea Co., Ld.	3,00,000	15th Nov. 1872	15th June 1882	18th Jan. 1883	-	
0 00	325	Rustomjee Twine and Canvas Factory Co., Ld.	8,00,000	13th Aug. 1875	10th Nov. 1879	20th July 1882		
	245 337	Borsillah Tea Co., Ld. Jamalpore Trading Co., Ld.	1,10,000 50,000	24th Sept. 1872 26th June 1876	25th Mar, 1882 4th Jan, 1883	5th Jan. 1883		
	348 376	Dam Dim Tea Co., Ld. Nowrea Nuddy Tea Co., Ld.	66,000 70,000	15th Jan, 1877 26th Dec. 1878	24th		2. N T. N	
	388 362	Bytagool Tea Co., Ld. Bogra Trading Co., Ld.	66,000 20,000	26th May 1879 27th Dec. 1877	24th 7th Feb. "			4 10
	406	Western Dooars Tea Co., Ld.	50,000	22nd Nov. 1880	26th ,, ,,			Grand .
	456	British India Ice Co., Ld.	2,00,000	15th ,, 1882	17th Mar. ,,			No and

No. IV.

Statement showing the register numbers and names of Literary, Scientific, and Charitable Societies registered under Act XXI of 1860 during the year ending 31st March 1883.

Nil.

No. VI.

Statement showing, in order of registration, the numbers and names of Joint Stock Companies on the Register on the 31st March 1883, with their nominal and paid up capital, and their profit or loss as per Balance Sheets received, and date of such Balance Sheets.

	Number of Register borne by each Company.	NAMES OF COMPANIES.	Date of registrati		Nominal capital.	Paid up capital.	PROFIT OF PER LAST SHEET I	BALANCE	Date of h		Remarks
	Numbe ister each (regionace		espenii.		Profit.	Loss.	Datance St	leet.	100
20				11	Rs.	Rs.	Rs.	Rs.	0		
1 2	20 22	Bengal Coal Co., Ld India General Steam Navigation Co., Ld.	24th July 25th Sept.	1858	24,00,000 33,00,000	22,00,000 33,00,000	2,73,965 5,91,175		31st Oct. 31st Dec.	1882	
8	24	Bengal Uncovenanted Service Medical Hall Association, Ld.	8th Dec.		50,000	25,940	6,987	*****	31st ,,		
6 6 7 8	39 40 46 63 67	Bengal Tea Co., Ld Balasun Tea Co., Ld Calcutta Docking Co., Ld East India Tea Co., Ld Kanchanpore Tea Co., Ld	23rd Nov. 21st Feb. 4th Sept. 7th Aug. 13th Nov.	1859 1860 1861	10,00,000 2,00,000 12,18,006 10,00,000 5,00,000	9,48,520 2,00,000 12,18,000 10,00,000 4,56,000	538 694 83,492 6,490	28,888	31st " 31st " 31st " 31st " 31st "	1881	
0	68 73	Sylbet Tea Co., Ld.	18th Dec. 28th Feb.	1862	1,50,000	1,49,633	6,232	0000	1st Jan. 28th Feb.	1888 1882	
1 2 3	78 81 86 89	General Purveying Co., Ld	15th Sept. 13th May 20th Nov. 9th Mar. 31st	1864 1862 1863	10,00,000 3,00,000 2,50,000 20,00,000	4,25,000 8,00,000 2,18,342 8,78,000	12,379 11,089	10,205	31st Dec. 31st ,, 31st ,,	100a 15	
8845678	90 100 103	R. Scott Thomson & Co., Ld Central Cachar Tea Co., Ld Beshparth Tea Co., Ld	1st April 2nd May 6th		5,00,000 10,00,000 11,00 000 4,00,000	4 67,000 10,00,000 8,25,000 3,02,275	12,506 63,148 44,164	1,269	Sist Mar. Sist Dec. Sist	1882	
9	111 112 114	Muttuck Tea Co., Ld Eastern Cachar Tea Co., Ld Equitable Coal Co., Ld Calcuta Landing and Shipping Co., Ld.	15th July 1st Aug. 7th .,		7,40,000 8,00,000 5,00,000	7,00,000 8,00,000 4,20,000	87,633	13,000	31st 31st 30th April	1982	
3 4 5	120 124 128 137	Rowrah Docking Co., Ld., Jellalpore Cachar Tea Co., Ld Geosery Cotton Mills Co., Ld Kurseong and Darjeeling Tea Co., Ld.	15th Sept. 24th " 9th Oct. 12th Dec.	::	8,00,000 1,60,000 14,00,000 8,00,000	8,00,000 1,60,000 14,00,000 6,54,300	16,365 40,847	708	Sist Dec. Sist Sist Soth Nov.	1881 1882 	
8 9 0 1	139 140 144 158 183	Durrung Tea Co., Ld	4th Jan. 30th 20th Feb. 20th July 21st April	1861	5,00,000 8,00,000 12,00,000 6,00,000 75,000	4,65,000 7,29,150 7,34,000 4,89,000 70,700	19,795	6,539	31st Dec. 31st " 31st " 31st " 30th April	1881 1882 1881 1882	
	200 203 207	Durrabhor Co., Ld	23rd 12th July 24th Jan.	1867	5,00,000 1,00,000	1,89,000 1,00,000	16,600 21,975		30th Nov. 30th April 31st Dec.	1881	

r of this	Number of Res- ister borne by each Company.	NAMES OF COMPANIES.	Date of	Nominal	Paid up	PER LAST	R LOSS AS BALANCE FILED.	Date of last Balance Sheet,	Remarks.
Number of thist.	Number ister b each C		registration.	capital.	capital.	Profit.	Loss.	24	
				Rs.	Rs.	Rs.	Rs.		
34 35 36 37	212 213 218 220	Chandypore Tea Co., I.d Nasmyth's Patent Press Co., Ld. New Mutuai Tea Co., Ld Areuttipore Tea Co., Ld	8th Aug. 1867 16th Sept 15th Aug. 1868 19th Jan. 1869	2,50,000 3,20,000 1,20,000 3,00,000 1,12,50,000	2,50,000 8,20,000 1,17,750 8,00,000 1,12,50,000	16,490 19,303 22,483 16,640	7,84,797.	31st Dec. 1882 30th June " 31st Dec. " 31st " "	* Capital, Loss,
39 40 61 42 43 44 45 46 47 48	921 924 225 926 927 928 933 234 935 937 938	Hong-Kong and Shanghai Bank- ing Corporation, Ld. Nutwanpore Tea Co., Ld. Vareedpore Loan Office, Ld. Tipnerah Loan Office, Ld. Cutlecherra Tea Co., Ld. Adulpore Terai Tea Co., Ld. Singell Tea Co., Ld. Indian Terai Tea Co., Ld. Hodungcoree Tea Co., Ld. Hodungcoree Tea Co., Ld. Central Terai Tea Co., Ld.	7th April " Sth Jan. 1870 13th June " 25th March 1871 30th May " 5th June " 15th Nov. " 4th April " 27th Jan. 1872 23rd March " 4th April "	4,00,000 20,000 1,00,000 2,70,000 1,10,000 6,25,000 1,50,000 4,00,000 4,00,000	4,00,000 18,200 84,220 2,50,000 1,10,000 6,25,000 1,50,000 4,00,000	45,190 5,000 4,197 6,341 25,121 5,391 3,874 5,018 16,429	259	Slst "12th April "12th "	\$50,00,000 \$7,64,797-33.
40 50 51	242 244 249	Dessai and Parbuttia Tea Co., Ld. Bowreah Cotton Mills Co., Ld Cocheela Tea Co., Ld	7th Aug 17th Jan. 1878	1,80,000 18.00,000 3,00,000	1,80,000 18,00,000 2,68,675	27,119 11,413 436	2,325	31st Ang. " 31st Dec. " 31st ", 1881	
52 53 54 55 56	250 251 255 256 257	Assensol East Indian Railway Co-operative Society, Ld. Holta Tea to., Ld Raneegunge Coal Association, Ld. Dedurkosh Tea Co., Ld Calcutta Hydraulic Press Co.,	13th Feb. " 27th " 8th April " 9th " 10th "	3,50,000 9,00,000 1,00,000 1,70,000	3,50,000 8,25,000 94,240 1,70,000	76,200 31,589	9,625	31st , 1882 31st March 31st Dec	
57 59 59	259 260 261	Ld. Budge Budge Jute Mills Co., Ld. Gowhatty Fea Co., Ld Fort Gloster Jute Manufacturing	21st 2nd May 6th .,	15,00,000 4,00,000 14,00,000	14,40,000 4,00,000 14,00,000	1,81,468	4,813	30th April , 31st Dec. , 31st May ,	
60 61 62 63 64 65 66 67 68	262 263 265 266 267 268 269 270 271	Co., I.d. New Heerbhoom Coal Co., I.d., Buxer Co-operative Society, I.d., Kala Cherra Tea Co., I.d., Colonial Tea Co., I.d., Anicable Tea Co., I.d., Mymensingh Loan Office, I.d., Labor Transport Co., I.d., Barisal Loan Office, I.d., Singbulli and Marmah Tea Co., I.d.	16th " " 75th " " 25rd July " 24th " " 1st Sept. " 23rd " " 25th Oct. " 17th Nov. " 26th " "	7,20,000 4,000 2,75,000 3,00,000 3,00,000 1,00,000 1,00,000 20,000 4,00,000	7,20,000 4,000 2,75,600 3,00,000 36,040 44,960 18,000 3,00,000	63,243 980 54,269 12,332 3,979 5,427 20,515	1,150 82,645	31st Oct. " 31st Dec. " 31st " 31st " 31st " 31st " 31st " 12th April " 32st Aug. " 12th March " 31st Dec. 1881	
79 71 72 78 74 75 76	272 274 276 278 279 280 281 282 287	Seebpore Jute Manufacturing Co., Ld. Agricultural Phosphytes Co., Ld. Puttareah Tea Co., Ld. Spring Side Tea Co., Ld. New Fullodhi Tea Co., Ld. Watson's Patent Press Co., Ld. Mothola Co., Ld. Ramkristopore Press Co., Ld. Riverside Press Co. (Watson's	18t Dec. " 18th " 31st " 10th Jan. 1874 10th Feb. " 25th " 5th March " 23rd April " 18th July "	15,00,000 1,00,000 2,00,000 1,68,000 2,00,000 3,00,000 1,50,000 1,30,000 3,00,000	15,00,000 85,000 2,00,000 1,68,000 2,00,000 3,00,000 1,38,000 1,38,000 2,70,000	7,320 1,365 12,694 30,998 1,583 8,940	42,038	31st ,, 1852 31st ,, 2881 31st ,, 1882 31st ,, 31st	
78 29	288 290	Howrah Mills Co., Ld Strand Bank ress Co. (Watson's	14th	17,50,000 2,50,000	14,00,000 2,50,000	1,17,276 56,942		51st Dec. "	
80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 97 100 101 102 103 104 105	291 292 293 294 295 295 390 301 302 304 306 307 211 312 316 317 319 322 324 325 325 326 327 318 318 318 318 318 318 318 318 318 318	Patent), I.d. Teendareeah Co., Ld. Joonktollee Tea Co., Ld. Burkhola Tea Co., Ld. Burkhola Tea Co., Ld. Tingling Tea Co., Ld. Baree Tea Co., Ld. Baree Tea Co., Ld. Asiatic Jute Co., Ld. Jheerceghant Tea Co., Ld. Phoenix Tea Co. of Cachar, Ld. Bogra Loan Office, Ld. Sungso River Tea Co., Ld. Chota Nagpore Tea Co., Ld. Lakatoorah Tea Co., Ld. Dunbar Cotton Wills Co., Ld. Mim Tea Co., Ld. Mim Tea Co., Ld. Gielle Tea Co., Ld. Sapakati Tea Co., Ld. Rajabaree Tea Co., Ld. Burrakur Coal-Co., Ld. Greb Tea Co., Ld. Sylhet Cultivating Co., Ld. Nasirabad Loan Office, Ld. Panbaree and Koorkoorish Tea Co., Ld.	28th ", ", ", ", ", ", ", ", ", ", ", ", ",	1,85,000 80,000 2,70,000 1,50,000 1,50,000 1,50,000 2,20,000 2,20,000 2,50,000 2,50,000 2,50,000 1,60,000 1,60,000 1,20,000 1,60,000 1,00,000 1,50,000	1,35,600 80,000 2,70,000 1,35,300 1,35,300 1,35,300 2,20,000 2,25,000 2,05,000 2,25,000 13,25,500 4,00,000 2,00,000 1,25,000 1,25,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000 1,50,000	10,675	20,449 16,047 1,865 3,250 5,904 2,869 23,673	Slst Dec, " 31st " 31st " 31st " 31st " 31st " 31st " 31st " 31st " 31st " 31st " 31st Dec. 1881 31st "	
106 107 108 109 110 111 112 113 114	330 331 338 334 336 339 341 342 843	North-Western Cachar Tea Co., Ld	25th ,, zist Feb , 12th April ,, 12th , 25th June , 30th , 27th July ,	2,76,000 1,40,000 1,20,000 12,00,000 20,000 2,50,000 3,75,000 20,000	2,76,000 1,40,000 80,000 12,00,000 14,740 2,50,000 3,75,900 12,610	16,065 2,049 3,939 2,61,742 543 5,893 39,053 2,646		31st ," ," ,31st ," ," ,31st Dec. ," ,12th April ,31st Dec. ,18s1 ,31st Dec. ,18s1 ,11th Feb. ,1892	
115 116 117 118 119 121	345 347 349 350 352 353 354	Exchange Co., Ld. Cachar Native Joint Stock Co., Ld. Teesta Valley Tea Co., Ld. Dehing Co., Ld. Sonsi Tea Co., Ld. Dhunseri Tea Co., Ld. East Bengal Mercantile Co., Ld. Empress of India Cotton Mills	23rd Aug. " 20th Nov. " 20th Nov. 1877 23rd March " 10th April "	20,000 1,00,000 3,50,000 10,00,600 1,60,000 1,60,000 20,000	2,550 53,675 3,20,000 8,93,475 1,60,000 1,155	19,595 16,610 2,166	2,504 1,091 260	30th April ,, 31st Dec. 1831 31st ,, 1882 31st ,, 1831 31st ,, 1831 31st ,, 1841 11th April ,,	
121 122 123 124 125 126 127 128 129 130	356 357 359 361 363 364 365 367 368	Co., Ld	19th " " 19th May " 15th March " 15th July 2sth Sept. " 19th March " 19th March " 19th M. " " 19th M. " " 19th M. " " 19th M. " " 19th M. " " " " " " " " " " " " " " " " " "	8,75,000 1,15,000 2,50,000 50,000 8,<0,000 1,00,000 1,60,000 20,000 3,30,000 35,000	8.75,060 1,90,000 2.50,000 55,000 4,00,000 64,100 1,60,000 17,639 3,28,300 21,800	15,000 4,560 5,21,586 5,506 	1,359, 87,912	31st Dec. 1882 51st " 31st "	

	of this	of re-	NAMES OF COMPANIES.	Date o		Nominal	Paid up	PER LAST	R LOSS AS BALANCE FILED.	Date of			REMAR	¥a.
	Number list.	Number of r gister borne teach Compan	Processing of the second	registrati	on.	capital.	capital.	Profit.	Loss.	Balance S	heet.			
						Rs.	Rs.	Rs.	Rs.				15 7	
	131	373	Loobah Ten Co., Ld	27th Sept.	1878	5,00,000	5,00,000	51,108 22		31st Dec.	1882	4		
	133	374 377	Railway Hindoo Co-operative So- ciety, Ld.	13th Nov.	1879	3,44,000	5,018 3,44,000	17,219		31st ,,	1880	ME	Suin	
4	134	378	Longview Tea Co., Ld Darjeeling Tea and Cinchona Association, Ld.	16th .,	"	2,00,000	2,00,000	28,815		31st "	1881			
	-135 136	379 381	United Medical Association, Ld. Bengal Stone Co., Ld	7th Feb.	11	5,000 80,000	2,000 80,0±0	203 49,845		28th Feb. 31st Dec.	1882			
	137	382	Chitpore Hydraulic Pressing Co., Ld.	17th March	"	4,00,000	4,00,000	*****		31st "	1880		. 1	Sa n
	138	383 384 385	Narail Trading Co., Ld Kettela Tea Co., Ld.,	20th ",	"	20,000	1,00,000 1,50,000	2,000	20,125	31st "	1882		- 1	-
	140	386	Munjha Tea Co., Ld. Darjeoling and Himalayan Rail- way Co., Ld.	10th April 10th "	::	1,50,000	13,99,340	77,052	******	31st	1881	100	-	
	142	389	Jamalpore Ice Manufacturing	28th May	"	10,000	7,120	890		Slst .,	33			
	148	390 391	Jalpaiguri Tea Co., Ld Kauknarrah Lime Factory Co.,	6th June	"	10,000	50,000 6,650	4,900 1,447		31st 30th June	1882		3	
	145	302	Ud. Washabaree Tea Co., Ld Indian Portland Cement Co., Ld.	8th Aug.	**	1,50,000	1,50,000	8,922		31st Dec.	1001			1734
	146 147 148	398 394 395	Toondoo Tea Co., Ld. Bengal Banking Corporation, Ld.	18th 19th Sept. 4th Feb.	1880	6,50,000 64,000 20,00,000	2,00,000 42,000 97,155	6,070		Slst "	1881	30	50	100
2	149 150	396 397	Teliachapori Tea Association, Ld. Karmafulli Association, Ld.	5th "	**	\$0,000 6,00,000	41,000	869	27,956	Sist "	11			100
	151	398 399	Nahartoli Tea Co., Ld Hindoo Union Bank, Ld	26th Feb.	1880	1,60,000	95,250 1,440	144	20,512	31st Dec.	1881 1881			
1215	153 154	400	Bapjan Tea Association, Ld Dacca Loan Office, Ld	5th Mar. 29th	**	70,000 1,00,000	70,000 40,790	8,695	7,259	31st 12th April	1882	1		
	155 156 157	403 404 405	Sylliet United Co., Ld United Jute Co., Ld	5th July 23rd Aug. 5th Oct.	"	4,00,000 20,000 9,00,000	3,02,500 2,051 6,75,000	1,48,016		31st Dec. 31st "	1881 1882	10		
	158 159	407	Tezpore Farming Co., Ld Assam Mineral Oil Co., Ld	8th Dec. 14th Jan.	1851	20,000	2,529	1110,010	11	31st ;;	1881	100		
	161	409 410	Sagmootia Tea Co., Ld Ringtong Tea Co., Ld Pingonah Trading Co., Ld	7th Feb.	**	1,30,000 3,00,000	1,00,000 2,00,000	3,227	30,839	31st Dec.	1882			. 5
	162	411	Goomtee Tea Co., Ld	8th Mar.	17	20,000 80 000	2,075 80,000	7,564		12th April 31st Dec.		120	7	
	164	413 414	Sungma Tea Co., Ld Khohong Tea Co., Ld Bengal Silk Co., Ld	30th 12th April	"	1,80,000 3,25,000	1,17,000 3,25,000	1,854 21,210		Sist	11.	7		100
	166 167 168	415 416 417	Commercial Co., Ld	20th June 18th July 27th	11	3,50,000	5,50,000 6,840	50	14,179	31st Oct. 12th April 31st Dec.	20	1000		
	169 170	418	Sylhet Loan Co., Ld Canal Press Co., Ld	1 th Aug.	**	1,50,000 20,000 2,10,000	1,50,400 3,310 1,40,000	906 352 26,102		15th July 31st Jan,	1883			
	171	421 422	Indian Kerosine Oil Co., Ld	9th Nov.	**	10,00,000 2,00,000	2,00,000		32,409	30th Nov.	1882			
	172 173 174	423 424	New Opera House Co., Ld Jetinga Valley Tea Co., Ld	10th Jan.	1882	1,00,000	1,00,000	5,809	350	Sist Dec.	"			-
	175	425 426	W. Newman and Co., Ld	30th 11th Feb.	**	2,75,000 3,50,000	3,21,900	89,077		30th June				
	177 178 179	427 428 429	Rungamattee Tea Co., Ld, Lower Darjeeling Tea Jo., Ld, Alipore Coal Co., Ld,	24th 3rd Mar.	12	3,50,000 1,10,000 1,50,000	1,10,000	2,952 1,141		31st Dec. 30th Nov.	**	1		
6512A	180	430	Hooghly River and Coasting Steam Navigation Co., Ld.	7th	-"	2,20,000	1,25,180	1,141		*****	**			
ng	181	431 432	Baintbaree Tea Co., Ld Tineri Tea Co., Ld	1tth 2lst	20	1,60,000 5,00,000	5,00,000	38,235	******	31st Dec.		- 1	100	
	183	434	Jinglam Tea Co., Ld Calcutta Ice Co., Ld	5th April	n	2,00,000	1,60,000		10,988	31st ,,		-		
	185 186 187	435 436 437	T. F. Brown and Co., Ld Shaikh Ahmed and Co., Ld Ellenbaree Tea Co., Ld	11th 25th	**	1,00,000	1.00.000	5,936		31st Dec.	1882		No.	- 1
	188	438 439	Bengal Purveying Co., Ld. Northern Bengal Railway Co-	27th 30th May	**	1,20,000 50,000 8,000	1,20,000 6,4:0	1,300		31st Dec.	1882	Section 1		7
			operative Supply Association, Ld.	711		-	0.00	1,000			1002			
	191	440 441	Co-operative Pharmacy Co., Ld. Rancegunge Ice Manufacturing	5th July	**	50,000 40,000	20,000	559	******	31st Dec.	1882			al .
	192	442 443	Co., Ld. Messai Tea Co., Ld. Camperdown Pressing Co., Ld	5th ,, 25th ,,	**	2,50,000 5,00,000	4.90.000	94 450		30th Nov.	1000			
	194	445	Titaghar Paper Mills Co., Ld Imperial Ice Co., Ld	28th ,, 18th Aug.		6,00,000 2,00,000	4,30,000	24,250	******	30th Nov.	1882	170		
	196	446	Orissa Coasting Steam Naviga-	24th ,,	"	4,00,000						4.		
温	197	418	Kamptie Gwallie Tea Co., Ld Pashok Tea Co., Ld	5th Sept.	27	2,20,000 2,50,000	3100	19110.	******		Page 1	100		
	199 200 201	449 450 451	Gobra Tannery Co., Ld	9th	24	2,00,000	1,42,500	24,163	******	31st Dec.	1882	12,000		
	202	452 453	Hooghly Mills Co., Ld Northern Dooars Tea Co., Ld Northern Bengai Tea Corporation	21st 20th	n	1,25,000 1,25,000 1,00,000	4 877			31st Dec.	1990	111		
	204	454	Ld. Bengal Rice Mills Association,	17th Oct.	"	10,00,000	4,577			3180 1760.	1882	200		2016
	205	455	Ld. Calcutta Steam Navigation Co.,	8th Nov.	"	6,00,000								
	206	457	Ld. Glencoe Tea Co., Ld	29th	4.	75,000	******							
	20% 20% 209	458 459 460	Subtiguri Tea Co., Ld,	2nd Dec. 2nd " 20th "	"	1,00,000 5,12,000	10,196	*****		51st Dec.	1882			1
	210 211	461 463	Kanknarrah Co., Ld. Darjeeling and Kurseong Hotel	Soth ,	1883	14,00,000 2,50,000	1				5			LALVE .
No of the	212	464	Bagracote Tea Ce., Ld	17th ,,	11	4,00,000					x = 0			
	213	465	Baintgooree Tea Co. (Docars), Ld.	17th	"	50,00,000 75,000			· · · · · ·	******	1134			
	215	468	Chota Naspur Banking Associ- ation, Ld.	21st "		20,000			*****		3.0			Plan Palak
2142	217	468 470	Nedcem Tea Co., Ld Barisal Trading Co., Ld Bengal Telephone Co., Ld	1st March 12th "	0	3,00,000 20,000 10,00,000								
1500		200	Total	,,,,,,		10,23,23,500	7,42,94,958	*****						NOC NO
	UD SEC	200	Total m	and the second	1		, tellinger	2 6 7 2 1	200	THE PARTY	59(5)		SELVE S	No ale

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 14th July 1883.

No.	District, and date of return.	Rainfall at Sudder Station in inches.	
	ATT ATT ATT	1	
ENGA	L. Western Districts.	1 1	
1 1	Burdwan, July 14 '8'	0.72	Light showers at intervals; weather generally fine. Want of rain has retarded agricultural operations seriously. Transplanting is almost at a stand-still.
1	Cutwa Raneegunge	A 45 45 M	Prospects unfavourable.
2	Bankoora, " 14 "	0.43	Weather-hot and cloudy with gales. The rainfall of the week was insufficient
	Bishenpore	0.00	for the rice crop. Til and boro paddy being reaped. Kang, kheri, kodu and other hilly crops of the Sonthals are being sown. Prospects continue fayour-
1	Maliara Khatra	1.98	able. Public health good.
3	Beerbhoom 14 ,.	2.03	Weather-sultry. Transplanting of aus and amun crops going on. Propects
	Midnapore, , 14 ,	1.32 0.61	satisfactory. A few cases of cholera in south of district. Weather—cloudy with slight showers. Prospects of crops good, but more rain is
1.	midnapore, " 12 "		wanted. Public health good.
6	Hooghly, , 14 ,	0.61	Weather—hot and cloudy. Owing to the scanty rain cultivation of aux rice is not going on Public health good.
1	Bowrah July 14 ,,	1.38	Weather-sultry till night of 11th, since which cloudy and showery. Jute, and
Mis.	Oolooberia	0.83	rice and sugarcane growing fast. Amun rice showing above ground.
, 6	Central Districts 24-Pergunnahs, July 16 '8	1.82*	Weather-clear and hot in the beginning of the week, and cloudy and rainy in
10	and an analysis of the	1-19	the latter part. Early crops doing well. Transplanting of amun paddy
1	Nuddea 14		going on. Prospects good. Public health good. Weather—cool and cloudy with occasional rain. Crops doing fairly well. Morta-
7	Nuddea, ,, 14 ,, Kooshtea	1.99	lity from fever somewhat increased.
	Meherpore .	0.63	
3	Choondanga Ranaghat	0.59	
1 8		0.77	Weather-cloudy and rainy. Transplanting of amun continues. Prospects good
8 9		0.72	Public health continues good. Weather-hot and cloudy with occasional slight rain. Want of rain is likely to
9	44 44	1.02	injure the rice crop. More rain is urgently wanted. General health good.
	Magura	. 0.37	
		0.90	
110		0.48	Weather-hot and close, with occasional light showers. More rain much wanted
			for transplanting operations. Prospects of bhadoi favourable. Public healt
, 1	Dinagepore, July 13 "	0.26	generally good. Weather—hot and dry. Rain much wanted. Bhadoi is suffering, and transplant
1	Dinagepore, Guly 10		ing of amun is being delayed. Rice selling at from 16 to 28 seers per rupee.
11		0.10	Weather—overcast, and strong east wind at times. Rain very much wanted for both aus and amun crops.
	V	Nil	for both and and amon crops.
18	Rungpore , 13 ,	0.80	Weather-hot. Prospects of standing crops fair. Transplanting of amu
		0.95	going on. Rain is urgently required. Cholera still somewhat prevalent.
	A	Nil	
	14	3.81	Weather-most part of the week dry, and heat oppressive, but good rain in the latter end. Transplanting of amun continues. Til, kaon and jali aus ready for
3			reaping. General health good, except some cases of fever reported from the
5	Section of the second		police station of Bogra and outpost Dhunat.
11	Pubna, ,, 14	2.10	Weather—cloudy with slight showers. Prospects of crops good. Aus padd being gathered and first instalment of jute in the market. More rai
		-	wanted. Rivers falling considerably. Public health good.
1	6 Darjeeling, ,. 14	, 1.93	Weather-brighter than usual for the season in the hills. All crops doing well Chalera still hanging about.
THE THE PART OF TH	7 Juspigoree, ,, 14	1.36	Weather - abnormal and unbealthy; unusual breaks. Prospects of cross prott
	a daipigoree, ,, in	gibe.	fair. More steady rain is wanted. Both early and late rice are suffering i
	Marine Village	100	some parts of the district for want of steady rain. Cholera still lingers in tow of Julpigoree and district.
	Cooch Behar, 14	0.42	Weather-very hot and close. Early rice being cut. Prospects of jute fai
1	up to 11th.	100	Rain wanted for late rice. Cholera abating.
Werife	Dinhatta up to 8th.	0.58	A STATE OF THE STA
	40 111	0.76	是一种的大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大
1	up to 7th.	Nil	
	Meckligunge up to 7th		
	Eastern watricts.	and the same	
1	THE RESERVE OF THE PROPERTY OF THE PERSON OF	83 1.56	Wenther—hot and sometimes cloudy. Roachia and sail paddy and kalai su moog are being sown. Aus paddy and jute are being cut. Sugarcane ar
		034	amun promising. A large quantity of jute in the Nawabonnoe station h
	Naraingunge	0.62	been destroyed by worms. Prospects of aus paddy in that station is impro
DACCA DIVE.	9 Furreedpore, " 14	0.77	ing, the waters having fallen. Weather—very hot, generally gloomy and showery, but the real rains still ho
- 4	Goalundo	0.54	off. State and prospects of crops still fair, but the need of rain is becomin
00	Madaripore	1.67	rather urgent. There is some small-pox in thana Palong, and a good deal fever about Furreedpore and elsewhere. In Goalando public health general
		5 Ten 985	good.
2	O Backergunge, " 12	0.90	Weather-high wind during the first three days of the week, and sultry after
115	Mymensingh, , 13	1.62	wards. Crops doing well, General health good. Weather—very oppressively warm owing to absence of rain; rivers also ha
	Jamalpore	0.53	sunk rapidly in consequence. Aus and jute have suffered from want of rain
	Kishoregunge Attex	0.76	the north-east of the district; elsewhere crops said to promise fairly. Amb
		0.36	

[.] For week ending 14th instant,

	To.	District, and date of return.	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and
BE	IGAI	-concld.	Meridian II	and the state of t
Eas		Districts.—concld. Chittagong July 17 '8:	2 12	Weather - hot with occasional rain. Transplanting of aus almost over. Sow
N.N.		W. 11-11.	2.82	ing of amun continues. Prospects fair. Prices steady. Cholera and cattle disease still reported. Weather—changeable:—often [cloudy; at times clear and sultry; strong
CHITTAGONG DIVE	23	Noakholly, " 12 "	202	southerly wind sometimes prevailing. State and prospects of aus paddy fair Transplanting of amun paddy in progress to some extent.
AUDA.	24	Tipperah, " 12 " Brahmunbaria	0·51 0·71	Weather—unusually hot and occasionally showery. Prospects of crops generally good. Public health generally good.
H	25	Chandpore Chittagong Hill ,, 10 ,,	1.70 0.28	Weather-very close and warm; occasional light showers. Jhoom paddy doing wel
0 (Tracts. Hill Capperab. " 11 "	1.37	Cotton crop short. Land being ploughed for rice. Westher—hot and occasionally rainy. Amun paddy is being transplanted. The being reaped and moog being sown. Prospects of sugarcane fair. Publ
BE	HAR			health good.
***	Attorn .	Water Street Street	0.57	Weather-hot. Sowing of bhadoi and paddy crops continues. Rahar, maiz
H1/4	26	Patna. July 14 Barh Behar	1.36	and other crops germinating well. A few cases of cholera and small-po reported from Behar sub-division.
報告	27	Gya ,, 14 ,,	Nil	Weather—extremely sultry. Want of rain beginning to be severely felt in som parts of the district. Generally, however, agricultural prospects good. Choler
	28	Shahabad, , 14 ,	Nil	is still very prevalent. Weather—too hot for the season. Break in the rains unfavourable to agriculture
JIVE.	NOT	Buxar Bhabooah	1:47 Nil	prospects. Prospect of rain today (14th). Out-turn of cheena estimated at annas, and of boro paddy at 14 annas.
PATNA DIVE.	29	Durbhunga, " 14 "	0.10	Weather—high wind, with clouds, showers and sunshine; variable, excessively he up to 12th. Accounts vary. Rain badly wanted in some places; in other all accounts good. Sudden flooding of low lands has done much harm. Healt
PAT	30	Mozuff-rpore 14	0.34	good. Prices rising slightly or stationary. A break in the rains lasted from the commencement of the week until the 12th
HELD HELD	80	Hajeepore Seetamurhee	0.54	with strong sun and but little cloud. Bhzdoi sowings almost complete. Sowing and transplanting of aghani in progress. Absence of rain has retarded
	81	Sarun, 14 ,,	Nil 1:46	weather close and sultry. Heavy rain at the time of report. Prospects goo
		Sewan Gopalgunge	0.90 Nil	Weeding going on briskly. Makai in progress. Rain much wanted. Sporad cases of cholera and small-pox still reported.
	33	Chumparun ,, 14 ,, Monghyr, July 14 '8:	0.00	Weather—hot and cloudy with east wind. Prospects of crops continue favourable Agricultural operations in rapid progress. General health fair. Weather—steamy and cloudy at intervals. A break in the rains. Transplanting
N.	W. Service		0.15	of winter rice retarded for want of rain. State and prospects of bhad crops still very good. Public health generally good.
ULPOKE DIVE	34	Bhagulpore, " 14 "		Weather—very hot. Murwa and aghani paddy being transplanted in the nort Bhadoi crops promise well. More rain much wanted everywhere. Publ health good.
LPOR	85	Purneah, " 14 " Kissengunge	Nil 3:69	Weather—very hot till to-day (14th). State and prospects of crops very good; by rain is rather wanted. Health fair. Fever bad in places.
Внаст	36	Maldab, , 14 ,	0.54	Weather—sultry; scanty rainfall; moderate easterly wind prevailing. Insuf- ciency of rain is materially affecting the standing crops. Prices of food-grain
B	87	Sonthal Perghs		rising. Public health generally good. Report not received.
OB	ISSA			
OK	3-16		5.07	Weather-scasonable. Beali being weeded. In some places sarad being r
NAIL	38	Cuttack, July 13 '8		ploughed. Rice crops on low land in some parts of Jajpur and Kendrapa sub-divisions reported to have suffered slightly from floods during last wee Sugarcane, turmeric and arhar growing well. Common rice selling at from 20 to 24 seers per rupee. Public health generally good.
ORIBSA DIVN.	89	Pooree, " 12 " Khoorda	6·34 7·11	Weather—rainy: Much damage done to paddy crop in pergunnahs Rahan Chabbiskud and Rameswar by recent flood. Rivers falling. Miscellaneo crops doing well. Several cases of cholera among pilgrims; otherwise pub
100	40	Balasore, " 13 "	884	health good. Weather—somewhat hot with occasional rain. Ploughing and transplantigoing on. Standing crops doing well. A few cases of cholera reported
CH	UTA	NAGPORE.		the Bhadrack sub-division. Public health otherwise good.
-		th-West Frontier		
0141	41	Agency. Hazaribaga, July 13 '8	3 2.43	Weather—warm and cloudy. Sowing of bhadoi and early rice still continue General prospects good. Health good.
10 to	42	Lohardugga. " 14 " Palamow	3·88 4·45	Weather—showery. Prospects of crops satisfactory. A good deal of sunshing has done much good during the week. Epidemic cholera has broken out
	43	Singbhoom, ,, 13 ,,	3-61	Husanabad. Prices steady. Weather—hot and close; bright unclouded skies, and no rain during the great part of the week. Everything progressing favourably. Prospects promisin
	44	Manbhoom, ,, 14 .,	0.09	General health fairly good. Weather—rainy and stormy. More or less rain general throughout the distri- Paddy, Indian-corn, and biri, moog, and other pulses on the ground doi well. Public health very good.

Published for general information.

CALCUTTA, STATISTICAL DEPT., The 17th July 1883.

COLMAN MACAULAY, Secy. to the Goot. of Bengal. The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of April 1883.

IMPORTS INTO CALCUTTA.

	9		FOOI	-GRAII	vs.	424		FIBROUS P	RODUCTS.	OIL-81	EDS.	-1109	Will be the		Sug	AR.
Whence imported.	RICE	AND PAI	DDY.		Gram	Other food-	Total.	Jute, raw.	Gunny-	Linseed.	Mustard-	Tea, Indian.	Cotton, raw.	Silk raw.	Refined	Unre
	Rice.	Paddy.	Total (in rice).	Wheat.	and pulses.	grains.	********		bags.			PIS	Transpire.			
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	- Division	Mds.	Mds.
BENGAL.	66,242	9,925	72,445	985	3,314	384	77.128			3,680	800	*****	68	240	176	1,421
erbhoom	6,413	58,948	6,413	700	4,442	26	7,289 2,26.948	*****	400	4,904	410.11	*****	707	461	2,524	1,93
idnapore	1,84,845 39,178	2,415	40.682	796	12,610	1,377	65,960	40,150 37,791	650,732	9,914	4,297		2,225		39,976	21,19
Perconnals	2,51,432	33,115	2,72,130	3,525	8,163	2,858	2,83,818 1,56,436	30,658	97 050	33,511	6,654		107	447	7,030	71,72
-Pergunnahs	7,385	2,500	7,385 5,402	79,779	650	******	6,052	250	90	4,434	100		35 36	******	499	15,87
hulna	3,840 5,955	4,075	8,501	2,811	22,204	940	6,129	2,411	******	4,459		*****	*****	21		*****
porshedabad	6,889	*****	******	3,760	2,029	340	6,889	2,413	36,990	*****	1.004			т. В		******
inagepore			6,889		543	******	543	8,952	213,780	400	1,682	1	123	*****		*****
ajshahye	******					*****	18,894	3,159	180	1,302	******		1.2			*****
unspore	18,894	******	18,894 729		204	4	937	2,62,633	263,160	474	1,974	512	*****	*****	*****	*****
abna	120		*****	,,,,,,	******	- 10110	******	18,475	357,570		*****	199			*****	*****
arjeeling	******		******	*****	1,400	*****	21,985	1,76,891	120	846	******	******	4,052	24	*****	*****
acca	20,585 6,502		29,585 6,502	1,864	2,197	200	10,763	1,09,138	1:0	13,968	14,669	*****			*****	*****
urreedpore	3,44,879		3,44,870		1,700	******	3,46.570	34,585		******	170					7111
ymensing	1,235	******	1,285	******	107	*****	1,550				******		478		*****	*****
ppersh	4,999	******	4,999	******	******	******	4,999 18,626		200				435	*****	*****	***
onkholly	18,626	*****	18,626		*****	100.00	10,020	444.04			20 519	712	8,506	1,258	50,205	10000
Total of Bengal	9,90,164	1,10,972	10,59,521	1,04,811	1,26,853	5,189	12,96,374	7,87,020	2,256,013	83,233	80,542		0,000	11111	00,000	1,34,4
	A STATE OF THE PARTY	No.				nding						-				HIER COST
BEHAR.			4	24,296	46,069	8,641	79,010			1,01,204	6,814			6	13,160	5
stna				4,609	49	******	4,658 75,854			24,547 24,922	10,014	******	11	107100	1,303	1,3
ya nahabad	******	*****	*****	71,022	4,832	4,659	4.639			27 6	684		*****	*****	1,060	****
ozuflezpore	*****	*****	******	545	44414	******	545	******	******	18,360	4,2.3				2,000	*****
urbhunga "			******	344	924	269	1,288 55,551			23,482	29,094	1	*****	******	*****	***
longhyr	20		20	6,017	49,245 956	7,918	17,390	291	******	23,792	41,170	******	******	******	*****	E STATE
hagulpore	4	******	4	8,516 400	503	*****	907	3,170	******	155	1,054	******	10	******		****
urneah			*****	200	492	1,139	70,048			15,727	61,327		13	32		1
onthal Pergunnahs	2		2	59,350	9,557	22,626	3,10,532	5000		2,81,263	1,98,913	1	23	43	15,5113	1,9
Total of Behar	30	******	80	1,75,299	1,12,021	10.10	77.00			77.5		777927		- 1	La Shudo	
Oniesa.						1	6,927			1						19070
uttack	6,927 86,757	25,153	6,927 1,02,477	******	164	*****	1,02,641				480		*****			
alasore	93.684	25,153	1,09,404		164	*****	1,09,568	441			480	******		Press.	Tax 100	-
Total of Orissa							7.4			7	No.	- 34801-1			200	
CHOTA NAGPORE.		1 1			538		538			1,609	2,962			en		1
lazaribagh											0 94 907	713	8,529	1,801	65,727	1 94
rand Total of supplies from the Provinces under the Lieutenant- Governor of Bengal.	10,83,878	1,36,125	11,68,955	2,80,110	2,40,182	27,815	17,17,061	7,94,760	2,256,013	3,16,105	2,32,897	12003	-		-	
OTHER PROVINCES.		1	11.1		The state of	Ton .		6,140		36	4,960	776	70	50		
880m				*****	******	******		(6)	1	1 0.5	4,03,181	402	65,801		35	92 3770
orth-Western Province	1,108		1;108	6,06:257	5,589	******	6,12,95			81,062	25,428	70			******	***
and Oudh		******	8	5,676	2,181	******	7,83			37,496	******	******	110		*****	PER 1997
entral Provinces	. 10		******	*****	******			******			******	*****	17,184		397	
lajputana States	24.4		******	*****	******	******	2,08	8	1,000		******	*****	THE STATE OF THE S	*****		
dauras	. 1	8	1 4	******	2,087 1,880		1,88			******	*****	- *****	940	******	*****	300
British Burmah	. 4	******			No retir	150				-		-				-
Grand Total of 188 Imports in Apl. (188	3 10,84,991	1,86,125		8,92,943												0 1,36

The Sea-borne Trade of Calcutta in these Staples during the month of April 1883 was as follows :-

CALCUTTA— CALCUTTA— Co. Indian ports, viz.— Bombay Other ports in Bombay Madras Other ports in Madras British Burmah Other Indian ports Lendicherry	2,14,548 1,934 1,96,817 16,094	12,533	2,14,548 	41 43 43 435	4,787 163 3,424 920 249	72	2,14,548 6,834 2,04,606 19,953 925 528	3,938	2,448,175 118,200 199,900 188,800 1,170,900 240,275 134,516			37 2 3 8 1		307 2 12 7	8,644 68 2,752 1 807 978	
Total of Interportal	4,29,394	12,533	4,36,977	798	9,546	78	4,47,394	9,818	4,500,766	5		51		328	9,247	100
To Foreign ports— ,, United Kingdom Uther Foreign ports	2,90,484 4,00,028	1,297	2,90,484 4,06,808	4,91,681 2,926	5,561 51,803	3,958 8,516	7,91,684 4,70,053	7,03,026 1,90,857	74,820 4,362,700	1,64,612 37,027	3,56,048	7,950 864	53,033 16,012	845 800	64,804	1 10
Total of Foreign trade	6,96,507	1,207	6,97,292	4,94,607	57,364	12,474	12,61,787	8,93,883	4,437,520	2,01,639	3,56,117	8,314	69,045	1,451	65,310	-
Grand Total of Ex- 1883 ports n April. (1882	11,25,901	13,830 11,267	11,34,269 12,23,139	4,95,405 2,26,873	66,910 40,874	12,547 1,551	17,09,13°. 14,92,457	9,03,701 5,02,151	8,938,286 8,658,212	2,01,644 2,12,390	3,56,117 55,999	8,365 1,075	69,045 75,227	1,779 868	74,557 16,595	

^{*} One maund of paddy is equivalent to 25 seers of rice † Exclusive of bags obtained by local manufacture,

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic importe into Calcutta during the month of April 1883.

IMPORTS INTO CALCUTTA.

		F	OOD-GRAI	INS.	19.	FIBROUS	PRODUCTS.	OIL	SEEDS.	m			Sva	AR.
SPECIFICATION OF ROUTES.	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food- grains.	Jute,	Gunny- bags.	Linseed.	Mustard- seed.	Tea, Indian.	Cotton, raw.	Silk, raw.	Refined.	Unre- fined.
and the second and the second	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mda.	Mds.	Mds.	Mds.
By country boats , river steamers , rail { East Indian , road , sea	7,76,038 4 64,878 26,970 1,21,416 95,688	1,18,718 9,254 8,153	65,002 7,86,530 34,097 6,414	1,01.875 1,18,516 19,531 7,947 4,059	2,831 23,822 1,159	2,07,348 2,20,558 3,33,668 32,882 444	1,273,791 903,750 78,272 1,200	44,579 36 3,52,963 30,912 6,209	15.371 4,660 6,25.162 21,273	776 478 712	2,489 280 68,823 4,650 908 18,608	513 50 310 478	13,576 15,557 314 36,315 397	43,060 2,068 72,833 19,026
Grand Total of Imports \ 1883 in April \ 1882	10,84,994	1,38,125 1,82,183	8,92,043 4,66,399	2,51,919 2,56,406	27,815 26,190	8,00,900 5,59,557	2,257,013 2,925,007	4,34,699 2,93,185	6.66,466 3,94,755	1,941 2,073	95,758 88,863	1,351 1,051	66,159 66,200	1,36,487

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported inland from Calcutta during the month of April 1883.

EXPORTS FROM CALCUTTA.

		Cotton piece	-goods.	Cotton t	wist.		Gunny-	1	Cotton pie	ce-goods.	Cotton	n twist.	to all	
Whither export	ed.	European,	Indian.	European.	Indian.	Salt.	bags.	Whither exported.	Euro- pean.	Indian.	Euro- pean.	Indian.	Salt.	Gunny-bags
BENGAL.		Rs. 2,68,576	Rs. 720	Mds.	Mds.	Mds. 28,381	No. 57,180	CHOTA NAGPORE. Hazaribagh Manbhoom	Rs. 76,725 35,625	Rs.	Mds. 8 11	Mds. 69 303	Mds. 3,479 3,814	No. 4,445 595
Burdwan Beerbhoom	***	1,67,250	2,160	98	213	11,160	15,750	Total of Chota Nagpore	1,12,350	Second 1	19	372	7,293	5,040
Midnapore Hooghly A-Pergunnahs Nuddea Khulna		1,16,528 1,26,030 2,03,939 4,01,290 7,900 73,712	9,625 29,203	856 420 834 1,153	24 58	1,405 3,709 9,025 16,228 3,540 6,506	6,986 40,796 20,629 45,580	Grand total of supplies into the provinces under the Lieutenant-Governor of Bongal.	86,83,780	66,148	10,370	2,636	2.11	1,145,586
essore Ioorshedabad Inagepore Lajshahye Lungpore		1,13,475 1,50,180 1,16,800 2,13,662 1,15,520	1,260	7 186 122 104 61	6	4,626 7,000 10,775 9,402 8,900	7,910 1,850 2,730 1,470 3,540	OTHER PROVINCES. Assam	3,80,057 38,76,600	6,840	671 2.657	207	17,310	1,077,614
Jogra Pubna Darjeeling ulpigoree Dacea		1,73,264 75,360 85,520 4.17,288	5,760	69 24 279 871 649		36,175 1,254 8,976 24,850 15,720	930 3;720 4,680	Punjab	21,83,625 68,475 51,600 7,200	930 720 450	2,175 524 234 6		2	243,865 83,965 9,485 2,566,375
arreedpore lackergunge Lymensing Chittagong Yoakholly		2,91,760 75,421 395 1,32,695 5,400	20	54 242		15,910 21,725 425 8,575	3,000	Pondicherry British Burmah Other places	23,071 2,02,358 18,123	1,345 500 755	1,548 108 547 82	2,75s 674		388,706 134,516 1,170,906 4,437,52
Total of Benga	BAG.	83,81,965	48,778	6,642	1,100	2,49,267	218,241	Grand total of \{ 1883 Exports in April \{ 1882	1,54,94,889	67,423	18,872	100000	4,18,939 5,68,047	10,158,42
Benar.					- II	40 800		The Sea-borne Trade of O				1		
Patna Gya Shahabad Mozufferpore Durbhunga Chumparun Monghyr	1111111	14,45,625 4,15,950 4,83,000 2,87,925 7,97,175 3,44,475 3,75,750 3,01,050	90 4,140 90 1,440 90	51 56 119	14 79 127 342 62 99	48,399 6,646 11,188 3,498 9,271 1,043 9,525 11,033	222,565 29,505 119,980 6,860 21,175 8,470 89,610 85,000	imported 1870 Calcutta-	Rs.* 1,13,23,737 21,462	Rs.	Mds. 20,083		Mds.	No.
Bhagulpore Purneah Maldah Sonthal Pergunu		3,45,600 3,51,675	4,500 8,150	37 33	85 	4,275 6,550 20,546	1,925	Total of Foreign trade	1,13,45,199		20,238	-	3,99,081	
Total of Beha		51,48,225	17,370	404	960	1,31,974	685,330	From Indian Ports-	15,268	50,290		4,077	43,256	
STATE SUCH STATES	(100) (100) (100)					• on	10.50	Madras Other ports in Madras British Burmah Other Indian ports	18,056 100 1,200 250	1,000			2,819	1,00
ORISSA.	High			207	******		12,500	Matel of Tutumous 14 . 3	29,874	*FT 000		7 700	110000	The same of the sa
ORISEA. Cuttack Pooree Balasore	::	91,240		3,098	204	30000	203,675	Total of Interportal trade Grand Total of (1883	1,13,75,073	51,290	20,242	4,683	-	1,20

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of April 1883.

	SPECIFICATION OF ROUTES.			COTTON PI	CR-GOODS.	100	COTTON T	wist.	0.14	4
100	SPECIFICATION OF ROUTES.			European.	Indian.	1	European.	Indian.	Salt.	Gunny-bags.
By count " Fiver " rail " read " sea	steamers East Indian Eastern Bengal		111111	Rs, 2,51,843 5,53,122 1,20,05,625 19,81,120 2,63,012 4,60,167	Ra. 19,946 82,850 5,760 16,752 2,840		Mds. 1,244 1,324 6,526 2,835 1,232 5,711	Mds. 2,581 58 3,946	Mds. 1,64,785 8,300 1,74,798 65,882 5,674	No. 81,141 2,181,235 50,040 6,525 8,038,280
	Grand Total of Exports in April	 1883 1882		1,54,94,889 1,87,89,778	77,748 67,423		18,872 18,384	6,585 5,073	4,18,939 5,68,047	11,257,827 10,158,429

* As per tariff declaration value.

Meteorological Report of the Province of

STON.								2///	STA	TION	OBSE	RVATIO	ons,	THE SE				
Divi			6	AIR P	RESSUL	EE,		N/A	,	Гемре	RATUR	E,		Нимп	DITY.	CLO	UD.	
METEOROLOGICAL DIVISION.	DISTRICT.	Representative stations,	Highest, 10 A.M., barometer read- ing of mouth.	Lowest, 10 A.M., barometer read- ing of month.	Mean, 10 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.		daily tem	Mean daily mini- mum tempera- ture.	Mesn daily tem- perature.	Variation from normal mean.	Mean, 10 A.M., humidity.	Variation from normal mean,	Mean cloud amount, 16 a.M.	Variation from normal mean, 16 A.M.	Rainfall,
		Gopalpore	29:777	29.454	29.575	29.625		87.6	76'8	84.2	81.0	82.6		83		5.8		14'89
3	Pooree	False Point	799	413	597	618	-019	102.0	70.6	88.9	78.1	83:5	-2.9	79	+7	7.4	+0'5	22.68
Operes	Cuttack	Cuttack	732	302	521	602	-019	104'4	75.3	93.5	78'4	86.0	-2.2	72	+4	7.4	-0.3	19.77
•	Balasore	Balasore	751	296	530	589		98'4	72.8	91.1	77.6	514		76		5.0		6118
[South-West Midnapore and South 24-Pergun- nahs,	Saugor Island	785	149	568	594	-035	96.2	74.0	89'8	80.2	85*2	-07	78	0	6.8	-0.8	13.04
4	Midnapore	Midnapore	672	230	458			105.2	73.0	94'3	77'5	85.9		71		5.7		6'61
BENGAL.	24-Pergunnahs, Howrah, and Hooghly,	Calcutta	773	301	567	588	-026	99.0	73.2	91.3	77-7	84.2	-0.2	77	-5	8.0	-0'4	8.80
£ .	Burdwan	Burdwan	688	325	492	591	-019	102.7	73.4	93.4	78'8	86'2	-0.5	73	-6	7'4	-0.8	12'08
*	West Burdwan, Ban- koora, and Beerbhoom.	Ranigunj			***	***	***											
SOUTH-WEST	Managedated	Berhampore	710	422	504	600	009	102.2	74'3	91.8	77'1	85.0	-1.2	80	+1	8'5	+0.8	8'48
ož.	N-44-							3.00.50	10000									
	Jessore and Khoolna	Jessore	759	412	578	611	019	100.3	74.1	92.2	78'7	85*4	+0.4	79	-8	8.6	-0.1	6 90
	Chittagong	Chittagong	782	481	598	688	-010		73 0	86.6	76 1	81.3	-0.8	84	-1	7.2	-11	34'23
	Chittagong Hill Tracts	Demagri									***	******	******					
4	Backergunj	Barrisal		*****		***	***							******				
PAST BENGAL.	Noakholly	Noakholly				·					***	*****				*****		
BE	Furreedpore	Furreedpore	**												******	******		***
EAS	Dacea	Dacca	771	481	593	629	-0.16	101.7	75'1	88'3	78.4	83'6	-0.5	83	-2	7.9	-1.0	9'12
	Commillah	Commillah	809	507	622	658		89'1	74.8	79-7	77.0	77'1		85		6.9		19:95
L	Mymensingh	Mymensingh			54465	***			•••					i			*****	to the
-	Bogra and Pubna	Serajgunj	******	******		***	***		***			******		******		*****		
11	Rajshahye	Rampore Beau- leah.	715	402	521	599	***	102.6	75'1	93.8	77.3	85.6	******	78		4.2	2000	7.60
BENGAL.	Dinagepore	Dinagepore	637	395	495			98'1	75.1	90'2	77.5	83*9		69		5.8		12.31
BERNATA LINE A	Rungpore	Rungpore	687	413	535			95.8	72.6		76.8	83.5		81		6.4		19'96
Nонти	Julpigoree and Cooch Behar,	Julpigoree	400	202	303			95'8	75'1	88.6	76-2	82'4		81		71		33°83
	Darjeeling Hill Tracts	Darjeeling	23*005	22.833	22.866	***		70.6	.01	65.7	-111			93	******	9.0	*****	39,11
4 [Purneah and North Bhaguipore.	Purneah	29.611	29:300	29.452	573	-034	105.2	78'4	89'7	75.2	82.2	+0.3	78	-4	7'2	+0-2	0.97
NORTH BEHAR.	Mezufferpore and Dur- bhunga.	Durbhunga	588	276	433	599	+012	103.4	72.5	98'2	78.7	85.5	-0'4	78	5	6*8	+0'8	19:07
Nor	Chumparam	Motihari	Altres	,,,,,,	""	***		99.5	***	90.6	***	.,,,,,		72	*****	1.3		3.08
	Sarun	Chupra		******	""	***	***		***		***		*****	*****	******	•••••	******	3
ſ	(Dehree	22:387	123	214	564	***	109.0	64'0	93.1	73.7	82'9		61		5.4		8'39
	Shahabad {	Buxar	466	266	343			106.8	72.3	95.7	80.8	87'8	******	65		4:4	*****	5:34
ERA	Gya	Gya	372	28.970	185	555	-031	109.2	68.3	98.6	73.7	85'8	-2:9	64	-1	6.2	-3.1	14'57
HH	Patna	Bankipore	566	29.230	399	580	-002	109:6	73:2	96:3	79.9	88:1	-1'4	69	-8	7.1	-0.6	14'73
SOUTH BREAK.	South Bhagulpore and Monghyr.	Bhagulpore	591	311	416	559		106'4	60.0	90'8	76.3	63.6		81		6.8		18.18
• [Southal Pergunnahs	Naya Doomka														,		***
	Hazaribagh	Hazaribagh	27'805	447	27.577	569	-005	100'5	70.7	91.2	75'3	83'2	-0.8	63	6	8.1	1000	7.98
CHOTA NAG- PORE.	Lohardugga and Man- bhoom.	Ranchee		*****		***												10 m
To be	Singbhoom	Chaibassa		-	***	***					***		*****			*****		

Bengal for the month of June 1883.

			DIS	TRICT OBS	ERVATION	S.			PH II	199	
pulls.	THE SHIP OF THE	Sure of the state		RAINEA	LLL.	14 N.C					
SEL		Of month,	Transport of			Sinc	e 15th Ma	у.		Representative	DISTRICT.
Mean of dis- triot.	Normal mean of district,	Variation from mean,	Number of rainy days.	Normal mean num- ber of ramy days.	Mean of dis- trict.	Normal mean of district,	Variation from mean.	Mean num- ber of rainy days,	Normal mean num- ber of rainy days.	stations.	
						***************************************				Gopalpore)	
17:05	9.00	+8.02	12.8	11.5	17.91	10:59	+7:33	15'8	15:3	Palse Point	Pooree
16.95	8.75	+8.20	14'7	11.0	20.75	10.26	+10.19	21'4	15.1	Cuttack	Cuttack
17 68	7'26	+10.43	16.2	11.2	20:39	9:48	+10.91	22.6	16.1	Balasore	Balasore
9.21	9.75	-0.54	15.0	13.8	11.77	12.41	-0.64	18:7	18'7	Saugor Island	South-West Midnapore and South 24-Pergun- nahs.
7.67	9.80	-1.93	12:3	12.8	8'17	12.04	-3.87	14'3	17:2	Midnapore	Midnapore
9.97	10.08	-0.06	16.7	16.1	11.00	13.06	-2.06	20.1	21.8	Calcutta	24-Pergunnahs, Howrah, and Hoghly.
8'66	9.02	-0.39	14'3	13.5	19.03	12.29	+0.74	17'3	18.2	Burdwan	Burdwan
12:40	10:98	+1.42	15.0	15.4	15.10	12.58	+2'52	20.6	19.5	Ranigunj	West Burdwan, Ban- koors, and Beerbhoom.
9.26	9.44	+0.13	14.9	13.1	13.79	12.15	+1.64	20.9	17.4	Berhampore	Moorshedabad
8.01	10.53	-2.22	13.8	14.3	9.73	13.52	-3.79	19.0	19.4	100	Nudden
9 94	12.73	-3.69	17.6	17.3	12.65	16.33	-3.68	22.2	23.2	Jessore	Jessore and Khoolna
43.62	20.37	+14.25	23.0	21.1	51.74	34.73	+17.01	80°5	27.6	Chittagong	Chittagong
19'63	19'47	+0.12	26.0	21.2	24.93	23.21	+1'42	34'5	27.9	Demagri	Chittagong Hill Tracts
16'95	- 20'75	-3.80	22*3	20.2	19.68	25.12	-5'44	28.3	27.3	Barrisal	Backergunj
39'20	28.08	+11.13	21'0	19.8	43.03	83.83	+9.10	30.0	27'2	Noakholly	Noakholly
7:99	12.91	-4.92	17.0	18.1	11.78	17.51	-5.73	23.8	24.2	Furreedpore	Furreedpore
7.81	13:33	-5.49	17:7	17.7	10.19	18.20	-8.01	23.4	23'8	Daeca	Dacea
14.66	17'40	-2.74	21.0	21.0	19.59	22.62	-3.03	27.3	28.0	Commillah	Commiliah
8'32	17'01	-8.69	17.0	19'2	12.22	21'36	-9'14	23.2	26'3	Mymensingh	Mymensingh
810	12:38	-4:28	12.8	15.6	12:33	16.30	-4.06	17:0	21.2	Same format	
6.88	10.70	-3'82	15.0	14'4	10.41	13.48	-3.07	20.7	18.9	Serajgunj Rampore Beau-	Bogra and Pubna Rajshahye
0.00	1070	-002	100	14.4	20 41	20 40	00,	207	10 9	leah.	majananye
10.76	13:20	-2.23	17.5	15.4	13.23	19.10	-5.87	21.0	19.5	Dinagepore	Dinsgepore
14'85	22.00	-7.15	18'8	17:3	21.19	29.18	-7.99	24.8	24.0	Rungpore	Rungpore
26.22	32.81	- 6'26	19.8	23:4	34.45	42.42	-7:97	80.3	31.9	Julpigoree	Julpigoree and Cooch Behar.
43-30	36'17	+7.13	23-5	24.4	46.29	44'95	+1.64	83.2	34.4	Darjeeling	Darjeeling Hill Tracts
22'96	11.39	+11.22	12.4	11.6	27.67	13.55	+14.13	15.0	14.7	Purneah	Purneah and North Bhagulpore.
Tism	714	+7:97	11'5	9.2	15.95	6.37	+7*58	12.8	11:3	Durbhunga	Mozufferpore and Dur- bhunga.
4.76	8:43	-3:67	9.3	9.5	6.36	9 85	-3.49	12.0	11.4	Motihari	Chumparun
9.72	6.63	+3.10	12.5	8.4	9.85	7.51	+2'34	12.5	9.9	Chupra Dehree	Sarun
7'31	5:44	+1.87	11.3	8.9	7'83	5.97	+1'86	140	10.3	Buxar}	Shahabad
10.20	5:41	+5.18	10'8	8.0	11.26	6.29	+4.77	123	9.8	Gyn	Gya
16.28	6:01	+10.22	10.8	89	16'64	7:30	+9'34	11.6	10-9	Bankipore	Patna
10:90	6:76	+414	12:0	10.2	11:77	8.14	+3.63	14'0	12.7	Bhagulpore	South Bhagulpore and Monghyr.
11.45	9.21	+3'24	15.0	13.0	13:39	11.02	+2'34	18'8	16.0	Naya Doomka	Sonthal Pergunnahs
7.29	8:39	-1'10	12.8	13.8	8.21	9.90	-1 39	16.0	17.8	Hazaribagh	Hazaribagh
10.00	7.87	+2.13	14.5	13.6	11.04	9'04	+3.00	18:2	17.7	CARL SECURED HIS SEC	Loharduzga and Man- bhoom,
8'44	8.46	-0.2	15'0	16*3	9.22	10.71	-1.10	20.0	21.7	Chaibassa	Singbhoom

Table of Rainfall recorded at Stations

		M	1000				1			111		- 100	100		3000				- XX	22, 5		
division.	District.	Station.	1	2	8	4	Б	. 6	7	8	9	10	11	12	13	14	15	16	17	18	19	36.13.4
		and the same	_		_														1000	0183		
ABRIE	Pooree	Pooree Khurdah	0.72	-	0.21	0.07			***	0.80	0,10	***	0°25 0°90 0°16	0°43 0°78	1'81 2'04 0'90	0.21	0.08		0.62	0.21	::	188
		Banpur False Point	0.25			1.67	0.10				0.12		0.09	0°97 0°05	0.04	1'89 1'55	0.26	0.24		0.02	0.28	1
	Cuttack	Hookitola Jagatsingpore	0.09				0.10									0.80		***	***	0.13	1.00	6
	Citemon	Banki	1.53	0.70	***	0.26	0.02		0.38	0.02	0.60	***	0'10 3'47 0'30	0.80 0.80	0.00	0.72 1.05 2.40	0.40	***	0.10	012	0.14	6
		Kendrapara Jajpore			0.86	1			1	0.40		* ***	0.85	0:70	***	0.80	***	2	***	0.30	***	
	Balasore	Chandbali Bhuddruck	0.40	0.20	***	***	***	177	***	***			1.20	0.47	0.20	1.10	0.20		1.50	0.51	2.50	,
		Sorah Balasore Jeliasore	0.10	0.20	0.07	1.120	0.15	12	0°04 0°80			0.08	0.12 0.00	0.42	0.15	0°25 3°14 2°00	0.08	0 20	0.34	0.62	0.08	i
		Baripodah*		1	300	-		""	0.00						0.00			0.14	0.35	***	0.74	ľ
BENGAL.	Midnapore	Contai Saugor Island			711	***	0.12	0.22	***	:::	0.54	0.67		0.47	0.67 5.69	0.52	0°17 0°15 0°70		0.20	0.48	0.70	l
		Tumlook Midnapore Ghattal	0.03	(0-71		0.05		0.05	***			0.82	0°70 0°56 0°97	0.41	***	0°33 1°53	0 16	-::		0.00	0.17	l
	24-Pergunnahs	Diamond Har-					***	0.21			***	0.58		0.03	0.40	0'42		***		0.09	***	ı
		bour. Alipore Jail	1.80	0.04	0.50	***	0.32	0.20			***	0.88	***		0.32	0.83	0.05		0.00	0.02	0°35 0°47	ı
Table !		Barrackpore Dum-Dum	0°45 0°89 0°59	0.27	:::		0.21	111			***	0.00	***	1'05 0'40 1'00	***	3.85 3.28 3.48	0.00	0'13	0.52	0312	0.58	l
		Burnset Buseerhat	0.22		2.34		0.12	***		0.37		0.69	6.69	0.03	0.18	0.21	0.64	0.08		0.30	1 20	I
	Howrah	Howrah Mohesreka	0.30		0.05		0°17 1°32	0.23		***	111	1.46 0.78		0.08	0.48	2.38 0.36	0.50		0.55	0.14	0.53	
	Hooghly	Serampore	0.03	0.71		0.06	0.68				,,,	0.05		1.58	0.08	8:77 1:59	0.03	***	0.52	0.43	0°36 1°26	
		Hooghly Jehanabad	118	***		***		0.16		***	***	0.11	0.43	0.32	1.12	172	0 23		0.01		2'50	l
	Burdwan	Culna Burdwan	1'20 0'04			1'33	***				1.62	0.09	2:53	0.12	0:30	0.27	0.02	0.04	0.07	0.03	3.05	ı
		Cutwa Rangegunge	***			0.18	0.43	***		2.,	0.55		0.07	0.15 3.55	0-24	0.52	0.70	0.10	1.27	0:42	2.75	l
	Bankoora	Bankoora	0:04			100		0.04		***	0.00	0.11	***	0.79	0.02 0.43	0.59	0°94 0°47	0'94	0:54	0.35	1'04	
		Bishenpore Mulinra Khatra	0.11	:::		17.	***	***	:::		1.63 0.82	0.80	0°27 0°56	1'04 0'72	0.35	0.21	0.20	0.18	***	***	1'87	l
	Beerbhoom	Bh. Soory		***		311	5.000	0:30			0.99	200	1.17	2.98	0.09	0.52	1.36	0:30	0.03		6°25 1 55	B
	Nuddon	Hetampore		***		Dr.C.F.	***	0.42		****	0.59	0.06	0'34	0.64	0.20	0.41	0.85	0.74	300	1.22	100	li
	Nudden	Ranaghat Kishnaghur	1.60	0.76		0.82 0.93 0.94				-27	2°70 0°07 0°39	0.03	6°25 4°51 0°09	***	0.07	0.33	0.43	0.15	0.50	0.43	1°40 0°23	l
		Chocadanga	***			0.10	0.10			100	***		0:25 4:16	0.80	111	0.00	0.40	0/17	0.46	1.81	0.32	l
	Wheelma	Kooshtea		***	""	***	0.88	***			***	***	2'86	0.09	0.11	0.31	1.10	0.24	0.15	0.05	0.00	1
	Khoolna	Satkira Bagirhat Khooina	***		0.80	0.41	0.20	0.82	111		0.12	0.34 0.45 0.41	5.28	0.10	0.02	0.48	0.05	0°01 0°48 0°73	0.00	0.00	0.87	ı
	Jessore	Narail	***		0.11	0.41	0.00	***	***		***	0.41	0.31	0.10	***	0.02	0.08		0.78	0.08	0.11	
		Jessore Jhenidah	***		0.22	***	1.26	***	***		0.01	***	1'04	0.19	0.73	0 11 0 18	0.47	0.38	0.08	0.04	0.18 0.15 0.35	1
	Micorshedabad	Magoorah	***		***	0177	***	2491	101	***	***	***	1.71	0190	0.43	0.02	0.29	0:43	0.17		2'88	l
	and of the controlled	Rampore Haut Berhampore			0.10	0°71 1°25 0°86	0*20	***		***	0.77		0'80 0'85 0'84	0.30 0.29	0°09 0°26 0°24	0.06	1.83	8.77	0.25	0.81	1.83	J
		Lafbagh Azimgunge	***	111	0.16	0°69 1'69	0.03		***		1:08		0.05	0.08	0.11	0.05	0.18	0.19	1*27	Charles	1.93	П
		Jungipore Lalgola	***		0.53	2:30	- Tan-	***	111	***	0.51	***	0.08 0.08	0.14	0.15	0.00	0.08	0.02	0.99	2.78 0.80	1.12	1
ST BENGAL	Chittagong	Cox's Pazar Chitingong	0:07 1:16	0.11	0.71	0:08 0:78	6:24 0:24	in.	0:08	0.35	3°12 3°06	1·19 2·12	0:01		1.44	5·13 2°01	5:65 4:60	1'62 2.54	3°17 1°93	6'67 2'76	1:75 6:37	l
图题 以	Chittagong Hill	Rangamati	0:10	0.03		0.87	0.92	0.11	0.31	2'59	0.12	2.43	***	0.28	0.22	0.21	1'09	2.00	1:00	0.91	0.06	B
	Tracts.	Ruma Agartola		0.93	0.15	3.30	1.08 0.40	0.52	0°76 0°20	0'54 2'55	0°50 1°15	0.12	0.20			0:45	1'95 0'86	0.32	1.50	1.32	0.92	B
	Backergunge	Patuakhally Ferozepore	0.09	0.03	0 80 2 45	1,16	0.50	***	ani "	0.08	0.40	0.10	1:10	0.82	***	0°15 0°02	2.70	0.00	0°15 0°92	0.03	3'70 1'00	1
		Burrisa!	***	The state of	0.08	0.11	***	0°01 0°82		0'03 0'28	0.33 0.33	0'01	0.58 0.58	0.02	0.22	0 19 0 98	2.40	0.62	0.75 0.72	0.02	2'08 1'35	ı
102000211011.55-C-1	Noakholly	Noakholly	***	0.44	0.13		***	0.10		0.20	4.12	0.04	0.10	1'18	0.81	1.08	3.01	6.67	0.13	0.85	4.68	ı
	The second second	Fenny		0.44	****		4.35	44)	3.45	2.36	1.24	1'43		0.10	***	1.00	3.50	3,20	1 63	4'50	6:46	ı
	Furreedpore	Madaripore Furreedpore Goalundo	***	***	0.10		***	64- 640-			0.12	0.32	0.30	0'15	0.522	0.37	0.80	0.41 0.84 0.64	0.10	0.08	0 19 2 18	Ä
	Dacen	Munshigunge	*		0.10	***	100	0.61	***	0.20	0.10	0.20	0.20	0.08	6*22	0.02	0:54	0.32	0.07		0:71	I
		Dacca Naraingunge				0.00	0.48	0'42		0:05 1:73	0.33	9.19 9.19	0'44	0.10	0.21	0.33	0.29	0'24	0.03	0°74 0°04	0'41	
	Comille	Manickgunga	***	***	,,,,	0.10	344	***			0.08	0.00	357	•••	0.02	0.02	0:35	6400	0.02	1.00	1'65	
	Coming	Comilla Chandpore Brahmunberin		1.03	941	0'45	2.26	0.15	0204	1'00 0'05	0.77	0.69	0.10	0.50	0.10	0°55 1°85	1.20 1.00 0.20	0.85 1.85 0.51	0.62	0 15 0 15	1'50	
	Mymensingh	Kishorogunge		***	***	0.04	0.79		0.04	0.12	0.17	2.81	0.58	***	274	0.12	1'40	TYS:	0.00	0.00	0'25	1
		Atm Myrrensingh			-	0.03	0.32	0.51	0.00		0.30	0.46	3.81	0.05	415	0.02	1.02	0.14	0°54 2°79	0.77	444	1
	c .	Jamalpore Nitrokona	0.01	0.08	0.51	0.03	0.04	0*36	1.00	0.03	4.99	0.20	2.26	0.08	0.16	0.13	0.75	0.67	1:67	0:84	0.57	

* Not received from 1st to 15th June 1885.

Explanation...indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left

in Bengal in June 1833.

21	23	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month,	Heaviest rainfull during the month.	Total rainfall from 1st 'annay 1883 up to 20th June 1883.	Average rainfall from 1st January up to 30th June 1883.	Station.	District.	Meteorologi cal division
1411	0'14	0.23		0.07	0.80 0.80 0.80	0'34 0'29 0'54	- 0°59 0°60 8°04 3°68	9°44 7°90 3°46 5°89 4°48	2:25 1:90 3:88 1:10	14 15 8 14 13	18'0 21'8 16'2 17'2 P	18'54 19'22 11'36 19'07 13'08	8.22 10.03 9.55 10.17	9°44 7°96 3°88 8 04 4°48	20°75 21°54 14°45? 24°82	13°56 16°08 13°329 18°48 9	Pooree. Khurdah, Banpur Palse Point, Hookitola,	Pooree	ORISSA.
	0°28 0°11 1°00 0°25	0°10 0°20 0°28	0°30 0°20	0.09	0°10 0°84 1°43	0.05 0.05 0.05 0.16	7°50 0°35 1°79 2°70 2°80	4.90 6.40 5.61 3.60 1.98	0°30 1°90 3°21 1°80 3°15	18 20 11 13	15°1 22°4 12°8 16°2	15°19 23°09 14°62 13°13	9 10°30 8°93 10°16	6:40 5:61 3:60 8:15	29 57 19:22 26:29	9 16:63 15:67 19:16	Jagatsingpore Banki, Cuttack, Kendrapara, Jajpore,	Cuttack	
	2:20 0:24 0:20 0:60 0:80	0.10	1.50 3.38 1.12 0.12 0.19	0.13	1'10 0'57 0'10	2·25 1·31 0·22 0·04 0·22 0·23	3°25 1 78 1°50 0 94 3°40 1°12	4°15 0°93 1°60 2°65 5 00 1°60	3°50 3°85 2°60 5°64 0°15 2°36	16 18 18 18 19	13'4 17'7 16'5 19'± 16'2 23'8	24°20 16°87 14°17 17°69 15°49	7'99 8'82 6'20 9'92 7'57	4·15 3·85 2·60 5·14 5·00	32.7± 25.30 25.38 30.23 25.29	15°94 18°37 15°64 21°64 15°94	Chandbali Bhuddruck. sorah. Balasore. Jellasore. Baripodah.	Balasore	
0'49	0.04	0.18	0·19 0·70	0.52	0.06	0.47 1.00 0.50 0.03	0°76 0°20 0°27 0°18	8.78 0.17 2.40 2.30 0.98	0.72 0.86 0.80 1.84 1.21	15 15 9 15 15 13	16:1 20:9 12:6 19:5 19:3	10:57 12:14 7:50 7:36 8:15	11.04 11.39 8.88 10.37 9.73	3.76 5.69 2.40 2.60 1.53	26°26 20°64 15°65 17°29 14°81	19:98 19:91 19:54 20:39 20:02	Contai Saugor Island · Tamlook, Midnapore. Ghatul,	Midnapore	SOUTH-WEST BENGAL.
0.41	*****	1.19		0.21	0.12	0.51	0.62	0.65	0.89	15	22'5	5.81	9.89	1.10	16.49	21:37	Diamond Har-	24-Pergunnahs	
0.01 0.08 1.00 0.68 8.63	0°02 0°02 0 57 0°21	0.03	0.19	0.81 1.10 0.14	******	0.18 0.18 0.18 0.23	0.05 0.20 0.07 0.18	1'20 0'68 0'76 0'72 1'24	0.85 0.70 0.89 0.95 1.59	19 12 18 13 20	24°2 19°6 22°1 20°0 20°1	9:49 10:29 9:61 13:85	10 03 8 98 10 03 10 03 10 51	1'80 3'85 3'28 3'48 2'53	17.24 19.83 17.75 17.36 23.28	21 28 19:28 20:79 20:99 22:13	Alip re Jail. Barrackpore. Dum-Dum. Baraset. Buseerhat.		
0:16	0.01		0°35 0 31	.0°13 0°07	0.49 0.02	0.01 0.58	0.20	1.18	0.95	18 18	24°1 21°5	8.92 8.92	11:30 9:28	2.38 1.35	16'97 18'56	22.23 20.58	Howrah Mohesreka.	Howrah	
0°12 0°04 1°17	0°34 1°08 0°32	0.63	0°14 0°83	0°85 0°15	0.08	0°04 0°03 	0°09 0°24 	0°83 0°41 0°73	0°84 0°71 0°83	20 16 13	23.8 21.4 19.2	10°86 8°70 9°82	9'86 10 49 9 70	3:77 1:59 2:50	20°03 18'82 15'95	19.67 22.67 20.37	Serampore Hooghly, Jehanabad.	Hooghly	
3'70	 1.65	2.63 2.35		0.21 0.10	******	0.07 0.30 0.30	0.64 0.10	0°30 0°57 0°09	0.20 0.20	13 16 14 15	15'4 21'2 18'7 21'3	8'30 12'08 5'61 18'78	8.60 10.03 9.72 8.64	2°53 3°05 2°16 3°70	19:14 28:05 13:98 28:60	18.63 20.62 19.03 15.28	Culna Burdwau, Cutwa, Ranceguago,	Burdwan	
0.75 1.90 0.81 1.80		0·14 3·76 0·25	0.10			0°13 0°27 2°20	0°15 0°31 0°10 0°07	0.82 0.82	0'86 1'59 0'25 0'71	17 14 16 12	20°0 16°0 19°7 19°3	7'20 12'23 9'31	9.92 12:17 10:63 11:57	1.04 1.88 3.76 2.20	28.60 13.85 22.98 18.95	17:87 21:73 15:56 18:19	Bankoora Bishenpore, Maliara, Khatra,	Bankoora	
2.65 1.20	1'17	0.65	0.05		0.70	0.22	0.00	0.03	0.51	19	10.0	9.09	12.60	1.22	26°50 13°78	10.40	Bh. Scory Hetampore,	Beerbhoom	
0°50 0°40 0°72 0°62 1°44	0°65 0°18 0°27	0.11	0 15 0 08 1 20	0'60 0'26 1'19 0'06	0.01	::	0°06 0°11 0°20 0°24 0°34	0.70 0.25 0.03 0.32	0'40 0'88 0'19 0'22 0'64	11 18 11 10 15 18	15'8 15'0 21'3 19'4 17'4 19'1	9°15 10°83 3°63 4°20 8°02 12°22	10°10 9°55 9°84 9°46 10°04 11°57	2.70 4.51 0.76 1.19 4.16 2.86	16:48 20:23 9:64 16:78 19:71 30:52	22'03 20'97 21'77 24'85 21'52 25'14	Bongong Ranaghat. Kishnaghur. Chooadanga. Meherpore. Kooshtea.	Nudden	11 - SIR - 17
1:14 0:27 0:70	1:00 0:13 1:66	0.18	0.02	0.21	0.10	0°10 0°17 0°02	0.23	1°20 2°31 1°51	0'82 0'68 0'66	22 13 22	21.3 21.3 21.3	10°87 9°69 12°26	12.06 14.24 12.31	1°20 2°53 1°66	22 07 25 30 21 73	25°44 28°05 25°68	Satkira Bagirhat. Khoolna.	Khoolna	
0°91 0°79* 0°05 1°55	0°81 0°10 0°08	0.45 0.06 6.88	0.46	0°05 0°53	0'04	0°10 0°04 0°20	0°10 0°18 0°15	0.41 0.18 0.06 0.10	0.16 0.59 1.50 0.96	14 19 17 16	18'7 23'3 18'6 22'3	5.72 6.80 7.00 10.85	11'54 13'80 13'21 11'06	0.88 1.15 1.20 5.08	18°17 19°22 10°30 27°20	25.92 28.75 26.40 26.53	Narnil Jessore, Jhenidah, Magoorah,	Jessore	
0.03		9.90 1.91 0.44 0.21			1'14	0°20 0°63 0°96 1°09 0°70	0.03	0°07 0°04 0°06 0°02 0°05 0°04	0.04 0.12 0.18 0.19	15 17 13 8 19 14 18	21.0 18.3 18.7 17.4 19.0 18.8 17.8	9°60 15°29 8°48 7°68 8°71 9°14 8°03	10°01 10°11 9°95 9°23 8°99 8°57 8°11	2.90 3.77 1.98 1.94 1.93 2.78 2.41	16.79 18.76 17.11 13.00 17.42 16.49 15.30	18:37 16:02 19:27 17:13 17:29 16:81 16:55	Kandi Rampore Haut Berhampore, Laibagh Azingunge, Jungipore, Lalgola,	Moorshedahad	
0.20	2.08 0.08			0.28	0:12	0.15	6:46	4.81 4.81	4'28 0'65	25 21	26°2 24°1	49°48 37°76	36°15 22°99	6.67 6.87	64.57	51°54 36°81	Cox's Bazar Chittagong.	Chittagong	EAST BEN-
0.70 0.12 0.16	0°17 0°85 0°07	0.15	0.01	0 10 0 33	0°15, 0°62 0°53	0°87 0°04 2°50	0°17 0°50 0°35	1.37 1.72 1.67	0°16 0°32 0°35	27 26 17	25.7 25.4 19.5	18:66 20:59 14:89	18°53 20°02 14°13	2.22 8.30 5.80	50°54 51°54 35°24	87:10 36:23 36:17	Rangamati, Ruma, Agartola,	Chittsgong Hill Tracts.	GAL.
145 136 213 280	0'39 0'09 0'42	0°74 0°07 0°57	0.65 0.12 0.65	0°80 0°34 0°17 0°21		0°25 0°11 0°25 0°03	1°35 0°98 0°64 1°03	1'40 2'10 0'87 1'75	1.85 1.99 2.95 1.67	20 23 23 23 23	26°5 24°3 26°6 26°7	18'95 15'61 13'11 20'18	23°37 16°58 17°25 24°69	8.70 2.45 2.95 2.80	34°03 24°61 84°79 42°53	37:66 29:02 52:28 38:64	Patuakhally Perozepore Burrisal, Bhoia.	Backergunge	
5.20 5.20	0:40- 0:88		0.89		072	0.04	0.72	5'50 4'26	0°38 0°22	22 20	25'8 25'3	47.00 39.40	24:86 29:42	6.67 6.46	62'15	42.28 48.80	Nonkholly Fenny.	Noakholly	
0:39 0:10 0:74	0°17 0°60 0°18	0.49 0.81	1 11	6,08		0.78 0.50 0.57	0.82 0.13 0.10	0°79 0°20 0°19	1°15 0°61 6°40	14 17 20	23°3 21°2 19°4	7.09 5.84 10.14	12.84 13.80 11.91	1°15 0°94 2°18	29*77 25*94 27*05	31°29 30°43 26°63	Madaripore Furreedpore, Goalundo.	Furreedpore	
0°25 0°19 0°40	0.00 0.41 0.19 0.42	0.17	0.91		**************************************	0°95 1°88 0°87 0°78	0°21 0°27 0°28 0°16	0°73 0°39 0°61 0°26	0°10 0°19 0°27	17 21 22 15	19.6 21.8 7 20.5	7.47 8.81 10.04 4.03	16:40 13:25 9:36	0.02 1.68 3.16 0.76	23-12 7 19-14	36'56 32'05 7 25'61	Munshigunge Dacea. Naraingunge. Manickgunge.	Daces	
1.22 0.75 0.16	0.80	0.03	0.00	0°49 0°45 0°15	0°11 0°25	0.20	0°02 1°75 0°30	2'46 2'05 1'15	0.02	25 19 19	23.4 23.4 21.2	20°75 15°30 7°71	18:49 21:59 15:05	2:46 2:05 1:35	41'80 35:25 40'12	39°90 39°24 37°30	Comilla Chandpore, Brahmunberia	Comilla	
0°86 0°03 0°54 0°02	1°15 0°04 0°12 0°25	0 17 0 47 0 96	0.61	0.08 0.42 0.10	0.00	0.20	0°21 0°28 0°07	1'00 0'45 0'40 0'10 0'17	0'16 0'10 0'20	10 9 23 16 30	21.8 16.4 22.1	7'89 8'87 9'00 8'57	19:29 14:39 20:62 14:95	2.81 3.81 2.79	83°02 25°07 25°40 21°49	30°50 28 1u 41°73 30°75	Kishoregunge, Atia. Mymensing, Jamantore. Netrokona.	Mymensing	

Table of Rainfall recorded at Stations

leteorological	District.	Station;		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	100
division,															200		- In and						0.00
ORTH BENGAL	Pubna	Pubna Serajgunge				0.75 0.35		1:43		***		::	***	3.10 5.85	0.15	0.02	0.04	0.51	0°11 0°30	1°32 0°45	0.04		
	Bogra	Sherpore Nowkhilla Bogra Panchbibi	***				0.08	0.90	,	0.41	:::		1.16 0.07 0.04	1°80 0°85 1°78 2°30	0.02 0.23	0.09	0°57 0°11 0°08 0°34	0°24 0°81 0°76 0°28	0.65 0.71 0.37 2.18	1.92 0.92 1.14	0.15	0.03	1
	Rajshahye	Beauleah Nattore					1.33	0.42				 :::	:::	0.05 1.50	0.13	0.02	0.11	0.13 0.40	0"15	0°09 0°20		2.28	
	Maldah	Maldah				***	1.63				***	0.03		0.19	11/	0.85	0.25	1'25	1162	1.57	0.71	0:42	l
	Dinagepore	Mohadebpo Churamon Raigunge Dinagepore	**				0.15	0.05			::	0.03 1.64 0.33	0°40 0°73 0°17 0°67	0'63	0.41	0°16 0°62	0.04 0.08 0.13 0.05	0°45 1°00 0°63 0°67	1.10 5.20 5.05 1.02	0.21 2.85 1.76 0.41	0:95 0:20 0:53 0:82	0°16 2°54 1°11	1
	Rungpore	Bhawanigu Rungpore Kurigram				0.41	0.10 0.80	0°72 -1°09 1°60		0°28 0 05		0.08	0.08	1.03 0.21 1.00		0.33	0.80	0°24 0°74 0°07 0°81	0.00 1.20 0.85	1°90 0°45 1°60	0.20 0.00 0.30	0.88 10.85	
		Bugdogra		***			***	0:44	***		***	0.09	0.22	0.04		0.08	0.51	0.08	2'27	3:30	0.60	350	1
	Julpigoree Cooch Behar	Julpigoree Dinhatta	***	0.15	300	0 21	3.06	1/1/2		0.36		0.35	0.35	0.02			0.03	0.35	3.26	0.28	0.19		l
	Cooca Benar,	Cooch Beha Mickligung Matabhang	e	:::		0.50	4°50 1°62	0.32	0.04	0.76		1'00	0°63 0°67 0°11	0.02 0.18	0.50	014	::	0.21 0.74	0.67 1.83 0.83	1°14 1°48 2°67	0.11 0.43 0.22	2.55	4
	Darjeeling Hill.	Buxa Darjeeling Kalimping Silguri		4.35	2.72 0.89 0.55	1°35 0°82 0°90	0.25	0°05 0°04	0.03			0.22 1.15 0.71 0.60	0°39 0°23	0.95 0.91	0.07	0 13 	0°29 0°27 0°25 0°44	1.52 5.19 3.36 1.27	0.40 9.15 6.21 5.60	5°48 6'00 5'36	1.80 0.63 0.63 0.12	2.18	4
orth Behar	Purneah	Kissengung Arrarech Purneah	е	***			1'20		0.31			0.01				0.07	0.07 0.47	0°13 0°70 0°19	3.32 3.73 2.45	3°43 4°89 1°32	0.90 0.60 0.43	1'67	Ų.
	North Bhagul-	Maddapore					0'71		***		,,,,	***			1	,,,		0.22	0.70	1.75	3.12	7.50	1
	pore.	Soopool	***	***		***			***									0.30	2.08	2.24	4.40	634	l
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OUTH BRHAR	Shahabad	Buxar Blubooah Sasseram	**			0.11	0.02		0.03 0.03 0.42		0:21	0.61		1.00	1.24 0.20 0.04	0.36 0.30 0.32	0.33 0.10 0.33	1'65 0'50 2'50	0.75	::		0.10	м
	Gya	Arrah Aurungaba Gya	. 222			0.08			0°33 0°31	***	0.46			0.12	1 31	0.65 0.38 5.59	0.02	0.98 1.01	3°11 9'04	0.21	0.01		
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	Vanahan	Behar Barrh Begooserai				1.00	***	::	0.13			0.91	:::		0.38 0.03		0.10	0°95 5°17 0°46 0°80	5'20 6'85 2'70	10.85 6.40	0.28	0.03	N.
	Monghyr	Monghyr Jamuí	***	***		***			0.46			0.33	1		0.10		0.30	0'60 1'25	0'48	1:58 0:21	3 31	0.8	ä
	South Bhagul- pore,	Bhagulpore Banka		***		0.12			0.07			0.10			0.17			0'43	5°40 1°60	0.10	19000	3 3 4	
	Southal Per-	Rajmehal Godda	***	***		oʻit	0.14			***	0.20	0.31		***	0.50		0.24	0.38	1:92	0.24		1'2;	1000
		Pakour Nya Doomk	****	***	***		1.50	0'87 0'66	0.12			0.00	7	0.04	0.85	0.03	0.18	0°50 5°35	2.68	0.01	3 60	1 2	ij
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	Loharduaga	Jhoomrah H Ranchi			-	0.10	0.40	***		***			0.10	0.20	0.30 0.38	5.00 0.00	0.50	1'60	0°05 0°20 0°21		0.90		
	Singbhoom	Palamow Chyebassa			***	0.02		0.02		***	***			0.25	0.00	0.18	0.22	0.31	0,33		1	137	
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in Bengal in June 1883-concluded.

21	23	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days,	Total rainfall for the menth.	Average rainfall for the month.	Heaviest rainfull during the month.	Total minfall from 1st January up to 30th June 1883.	Average rainfall from 1st January up to 30th June 1883.	Station.	District.	Meteoro loxi- cal division
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03 17 102 145	0.04	0.38 0.83	0°24 0°85 1°95 0°25	0.33 0.71 0.40 1.21	0°21 0°07 0°19 0°16	0.09 0.02 	0°12 0°02 0°43	0.07 0.02 0.04	0.13		19 15 16 20 15	15.8 18.3 19.4 9	6°:1 11'33 12'47 12'91 10'58	14.66 13.55 15.14 17.58	1°10 2°85 2°54 2°68 3°40	11:44 18:09 22:10 25:92 15:35?	23.71 19.05 24.24 28.71	Mohadebpore Churamon. Kaigunge, Dinagepore. Baloorghat.	Dinagepore.	
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).91	1.04	2.92	6.26	1.76	1.02						18	21.8	33.85	29.90	6.26	48'89	47.74	Julpigoree	Julpigoree.	client in
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1.63 9.04 9.02 9.06	0.25 0.23 0.23 0.25	3.78 0.78 0.10 3.50	5°33 0°38 1°45 0°90	3°85 1°04 0°83 1°75	2°14 0°58 1°42 1°70	0.46 0.40 0.12	 1°25	1.82 2.97 0.20	0.83 1.10		21 25 23	25.4 27.8 9	47.08 39.52 32.99	47°17 25°07 F	6.24 9.15 6.21	89:39 51:80 40:069		Buxa Darjeeling Kalimpong Silguri.	Darjeeling Hill.	
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	0.10			10.50	0.25		0.80	0.52			12	15.2	29.21	8.62	10-20	34-21	14.85	Maddapore	North Bhagul- pore.	
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)*06	0.03 0.22 0.34	1'36 0'04 0'11		0.08	1.61 0.38 0.10	0.01	0.10		0.03		11 11 12 11	15°4 18°7 13°8	8°38 14°60 8°07	5°48 6°49 6°05	3.11 9.04 2.00	13.92 11.66 17.51 12.51	8.35 9.79 10.12 8.60	Aurungabad Gya. Nowadah, Jehanabad,	Gya.	
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METEOROLOGICAL AND RAINFALL SUMMARY FOR THE MONTH OF JUNE 1883.

June is meteorologically the most important month of the year. It usually witnesses the establishment of the south-west monsoon over Northern India. The distribution of rain during the month generally indicates the chief features of the rains during the whole

south-west monsoon period.

The south-west monsoon usually commences on the east coast of the Bay in the last week of May or the first week of June. It advances northwards sometimes as a wave of rainfall, and sometimes as a cyclonic storm. It is usually established in South Bengal during the first or second week of June, and if the conditions are normal, extends rapidly eastwards up the Gangetic valley to Behar during the second or third week of the month.

The circumstances and conditions accompanying its establishment are different in Bengal from what they are on the Bombay coast. The south-west monsoon current is merely a remarkably steady and prolonged sea wind due to conditions and actions similar in character to those which produce the sea breezes of the hot weather. Its strength and persistence are not to be measured by the average force of the wind which on the Bengal coast is less than the strength of the local sea breezes of the hot weather months, but by the extent of the sea area over which it prevails, and the height of the atmosphere which participates in the motion. The Bengal sea breezes of the hot weather months commence in March, and are confined to the immediate neighbourhood of the coast. They gradually extend further south during April and May. They affect comparatively a small height of the atmosphere. But blowing as they do into the low and extensive plains of Bengal, their influence is felt over the whole of Bengal, and increases with the increased extent of sea area over which they blow. They thus give frequent thunderstorms and rain to Bengal, the amount of which increases during April and May, but the distribution of which is the same in both months, as it depends mainly on the geographical configuration, &c., of the country in its relation to the same winds. On the Bombay coast the high range of the Western Ghâts do not permit any such continuous increase of action, as they form an almost complete barrier to the sea winds. Hence throughout the hot weather months the sea breezes at Bombay are confined to a very narrow belt of the coast, and affect a very small portion of the atmosphere as compared with the Bengal sea breezes. Hence also they very rarely give rise to storms or rain, and thus differ considerably from the corresponding sea winds in Bengal, although due to similar causes.

The development or transformation of the local sea winds of the hot weather months into the more important and extensive sea winds of the rains is very different in its character in the two cases. In Bengal there is no large or sudden change. The humidity increases slightly, the sky becomes more clouded, and rain falls more frequently. In those parts of the Province only which are beyond the direct influence of the sea breezes (Behar and Chutia Nagpur) is the change a large and marked one. On the Bombay coast, on the other hand, it is a change from sultry weather, clear skies, and local winds to strong general winds, overcast skies and heavy rainfall. Hence in Bengal the change is a development of previous conditions, and it is rarely possible to assign a particular date for the commencement of the monsoon. It is on the other hand a transformation, a reversal of conditions on the Bombay coast, the date of which can be assigned exactly. In Behar it may be added the commencement of the south-west monsoon is usually shown by a steady of increase in the humidity

of the air for some days previous to the occurrence of rainfall.

The Bombay branch of the monsoon current usually sets in about the middle of June, and advances slowly across Central India and the Central Provinces where it is generally not fully established until the end of the month. When it is fully established it meets in its eastward progress at an obtuse angle the current from the Bengal coast advancing up the Gangetic plain. Hence arises a very considerable amount of interaction, the extent and position of which depends on the varying relative strengths of the two currents. Consequently a large part of the Province of Bengal is, during nearly the whole of the rains subject to the influence of, and receives its rainfall from, both currents. This, however, rarely occurs before the end of June. Hence the rainfall of the month of June occurs under similar conditions to what it does in April and May, with the exception that the current is much stronger and deeper, and more largely charged with aqueous vapour. Consequently the rainfall distribution of the month of June is similar to that of the preceding two months. The lines of equal rainfall run north and south, or parallel to the hill barrier of East and North Bengal, and the amount decreases rapidly from east to west.

of East and North Bengal, and the amount decreases rapidly from east to west.

It is an important fact that the rainfall during the south-west monsoon is not a steady action. It occurs rather as a series of pulsations or waves of aqueous vapour condensation and rainfall. The intervals between the bursts of general rainfall are extremely favourable to the formation of cyclonic vortices at the head of the Bay, which advance landwards across the Bengal or Orissa coast, and give heavy and occasionally excessive local rainfall to the districts over which they pass. Hence the important meteorological features of the mouth are the character and data of the companyeement of the south-west measurement of

the month are the character and date of the commencement of the south-west monsoon, the occurrence of cylonic storms or disturbances, and the distribution of the rainfall.

Establishment of the South-West Monsoon.—The monsoon commenced very feebly on the Aracan and Pegu coast in the last week of May, when moderate rain fell, and continued until the 3rd of June. The first considerable fall of rain with rough weather occurred on that coast on the 3rd and 4th. It increased in amount and extended northwards. At the

same time the humidity began to increase in Behar. Rainfall was fairly general over South Bengal during the second week of the month, mere especially after the 11th. The rainfall extended over the whole Province during the next week. In Behar and Chutia Nagpur the rains were ushered in from the 15th to the 18th by a cyclonic

disturbance of considerable intensity, which gave remarkably heavy rain.

Barometric depressions.—Two were formed during the month at the head of the Bay. The first was generated in the north-west angle of the Bay, quite close to the Balasore coast, and in the Balasore and Midnapore districts on the 13th and 14th. It gave moderately heavy rain to North Orissa and South-West Bengal, but was of little importance until the 15th, when it had advanced into South Behar. It then apparently began to draw large supplies of aqueous vapour from the monsoon current, which had by that time advanced into North Bengal and Behar. It moved across the Patna district into North Behar and passed into the northern part of the Purneah district, and gave excessive rainfall attended with heavy floods over a large part of Bahar, more especially the Gya, Patna, Mozuffer-pore, Durbhunga, North Bhagulpore, Purneah, and Darjeeling hill districts. It broke up on the evening of the 19th or morning of the 20th in the Purneah district. The second depression and cyclonic vortex began to form on the 26th of the month. It followed a brief period of light winds and partial rainfall. Its existence was first indicated by the wind direction at Saugor Island on the morning of the 26th, when it was to the south-east of that station. It remained stationary until the 28th, during which period it gradually increased in intensity. It crossed the Balasore coast on the evening of the 29th, and passed across the North Orissa hills into the Central Provinces. It was chiefly remarkable for the very low barometer at its centre (29 1") and for the very strong winds (almost of hurricane force) experienced by ships which passed through its eastern quadrant in the Bay.

Rainfall of month.—The average rainfall of the month exceeds 5 inches at all stations except Buxar, for which it is 4.7 inches. It varies from 5 to 10 inches at all stations (excepting Buxar) to the west of a curved line running through Rajmehal, Berhampore, Beerbhoom, Calcutta and Contai, and decreases from east to west. Between that line and a line running through Rungpur, Mymensingh, and Kishoregunj, along the western flank of the Tipperah hills, and through Chandpur and Patuakhally, the average rainfall varies from 10 to 20 inches in amount. To the east of the latter line it exceeds 20 inches, and over the greater part of the Cooch Behar district, the Bhotan Duars and the Darjeeling hill district, and also in the Cox's Bazar district in South Chittagong, it exceeds

30 inches

If the first day from which general monsoon rain occurred be accepted as the date of the commencement of the monsoon, the following give the dates for the Provinces for the present year :-

> East Bengal June 8th. South-West Bengal 9th. North Bengal 10th. 10th. Orissa. ,, Behar 14th. *** ...

The local distribution of rainfall for the month was very irregular. During the first week of the month, local showers were received in nearly every part of the Province. During the second week the monsoon current gave fairly general rain commencing from the east coast and advancing northwards and westwards. The depression which formed at this time gave very heavy rain during the third week over Orissa and the greater part of Chutia Nagpur and Behar. Light moderate rain also fell in Bengal. During the fourth week the second depression which formed passed over Orissa to which it gave heavy rain. Throughout the remainder of the Province rain fell almost daily as light showers, but the total amount in consequence of the indraught to the cyclonic draught was small.

The rainfall was less than 10 inches in amount over the north-western districts of Behar and Chutia Nagpur, and over a large part of Central Bengal, including the Moorshedabad, Rajshahye, Pubna, Buxa, Nuddea, South Burdwan, the greater p rt of the Presidency Division, North Jessore, Dacca, and the western half of the Mymensing district. In Central Bengal there were three centres of very slight rainfall—Manickgunge in the Dacca district, Nattore in the Nuddea district, and Ranaghat and Bongong in the Krishnaghur and Jessore

districts. At each of these the rainfall was less than five inches in amount

Rainfall exceeding 20 inches in amount occurred over the Noakhally, Chittagong, Cox's Bazar districts, and also in the Cooch Behar, Julpigoree, North Purneah, and North Bhagul-

pore districts.

The rainfall was in excess over the whole of Orissa, the greater part of Chutia Nagpur, and the whole of Behar (excepting the Chumparun, Bettiah, Gopalgunge, and Bhoobooah districts, and part of the Sonthal Pergunas), the Julpigoree and Darjeeling districts. The excess exceeded 10 inches in the Behar, Muzafferpore, North Purneah and North Bhagulpore districts and the Darjeeling Hills, and also at Cuttack and Pooree and Chandbali in Orissa. The excess was also over 10 inches along the north-east coast from

Cox's Bazar to Noakhally.

The rainfall was in defect over the districts referred to above, and also over near the whole of Bengal. The deficiency exceeding five inches over the greater part of Bengal to the east and north of a line running through Dinagepore, Rampore Bauleah, Krishnaghur,

Jessore, Midnapore, Chandbali, and Bhramanbariah. It exceeded 10 inches in part of the Cooch Behar and Rungpore districts, and the eastern half of the Mymensing district, including Mymensing and Kishoregunge.

The following table gives a summary of the rainfall and temperature data for the seven meteorological divisions of the Province:—

						TEMPE	RATUR	Е.	VI KAN		-	1	RAINPA	LLL.		10 TOP 10	
	Fil			month.	month.	Avera	ge for n	nonth.	bove or nth.	0	f mont	h.		y days		Since May	
Meteorol Distri		L.		Highest observed during	Lowest observed during	Of highest of the month.	Of lowest of each day.	Of mean for each day.	Average mean of week above below normal mean month.	Ачетаде.	Normal average,	Variation.	Average number in menth.	Normal average number,	Variation.	Ачетьке.	Normal average.
Orissa Bouth-West Bengal East Bengal North Bengal North Behar South Behar Chutia Nagpur		:::	::	104'4 105'5 109'7 102'6 105'2 109'6 100'5	70°6 78°0 78°0 72°6 72°5 68°3 70°7	89:4 92:1 84:9 90:6 94:0 94:9 91:2	78°8 78°4 77°9 77°0 77°0 76°7 76°7	84'1 85'4 80'7 83'8 83'8 85'6 83'2	-0.8 -0.2 -0.2 -0.2 -0.2	17:23 9:35 19:78 13:43 13:14 11:37 8:58	8°34 10°23 19°79 18°24 8°40 6°57 8°24	+8.89 -0.87 -0.01 -4.81 +4.74 +4.80 +0.34	14°6 15°0 20°6 16°8 11°4 12°0 14°1	11.9 14.5 19.8 17.2 9.7 9.9 14.5	+3'4 +0'5 +0'8 -0'4 +1'7 +2'1 -0'4	19'68 11'91 24:15 18'32 14'96 12'24 10'00	

Results of the Meteorological Observations taken at the Alipore Observatory from 8th to 14th July 1883.

	W_		· m·	Sarometer	r	BM PER	ATURE.		1	lyenom	BTRY.		WIND.			
Month.	Date.	Maximum in sun.	Number of hours of shine.	Munit pressure taro at 32º Fahr	Meau,	Мактивив.	Ronge.	Winnessen.	Mean wet bulb.	Vapour tension.	Paw point.	Humidity.	Prevailing direction.	Miles recorded.	Kain.	W яатияв,
883.		9		Inche .	e	θ	9	9	0	Inches	Θ	%/6			Inches	
uly	8th	152.5	9	29 523	83.0	88.7	100	78:7	79-7	0.971	78:3	86	SSE and SE by S	175	0.46	Cloudy, o, g, d,
,	9th	152 3	7	.554	83.3	89.3	11.6	77-7	79:9	976	78.5	86	S and SSE	133	0 02	Chiefly cloudy.
,	10th	152.0	9	*584	841	90.0	11:3	78.7	80 4	*986	78.8	84	S and SE by S	78	0.11	Partially cloudy,
	11th	151 6	12	.549	85.8	92.5	14 3	78 2	80.9	.880	78.9	81	S and E	54	Nil.	Chiefly cloudy,
	12th	144.3	Nil	-525	82.3	92.0	138	78-2	79.8	1987	78.8	89	SW, ENE and S	58	1.11	Cloudy, o, g, p,
,,	13th	151'0	5	*524	83 9	88.1	9.4	78.7	79'3	.942	77.4	81	S, E and SE	166	0.19	Cloudy, o, g, d,
"	14th	143:6	2	*572	82.5	87:7	9.2	78.5	79.1	-948	77.6	85	ESE and SE	190	0.46	Cloudy o, d, p,
	The The The	mean average	temp ge ter me va	er of b	ours of to	of sur	eu da corres	e of t	he se	eriod i	iys for 24		ears, S. G. Office			29·548 Hours, 44 & 83·6 83·9 14·8
			1	ocity o							e sev	en:	days			92.5 Miles. 17
	The	highe	st pre	essure o	f the	wind	on o	ne sq	aare f	oot di	iring	the	e seven days			15s. 3
				ve hun							riod	or	24 years, S. G. O	ffice		85 85
O MANAGE	The	total		f rain f									G. Office			2·35 2·50

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a that ched shed open at the sides, and are suspended four feet above the ground.

The parometer readings are corrected approximately to those of the standard Newman's No. 86 formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction of the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, p passing temporary showers, t thunder, lr lightning reflection.

JOHN Еггот,

METEOROLOGICAL OFFICE, INDIA, The 16th July 1883. For Meteoro.ogical Reporter to the Government of India.

Meteorological Report of the Province of Bengal

										STATIO	N OBSE	RVATI	ONS.					
					An	R PRESSU	TRR.	WIN	D.		-104		MPERAT	URE.	V Contract		nidity reek.	noun
	DISTRIC	CT.	Representati station.	ive	Mean barometer height, 10 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velo- city miles per day.	Highest during week.	Lowest during week.	Mean maximum temperature.	Mean minimum te perature of week.	Mean daily tem- persture of week.	Variation from normal mean of week.	Mesn 10 A. M. tempersture.	Average humidity at 10 A. M. for week.	Average cloud amount
I			Gopalpore		29.206	29.556	_	v	223	85.6	77'8	83.2	79.7	81.4	-3	83.0	84	
r	Pooree	}	False Point		*513	*535	-104	Variable	219	89.2	76:6	87 4	78'5	83.0	-1.9	82.3	82	
H	Cuttack		Cuttack	444	.462	*542	008	Variable	58	93'4	76.3	89'2	78'5	83'8	-0.2	85'7	77	
	Balasore		Balasore		*494	*553	-	Variable	72	92.1	74'3	88.1	78:2	83 2	- ,	85'1	80	
Z316-	South-West Mi		Saugor Island	***	*549	*574	-047	Variable	202	92.2	77:0	89.2	79:3	84.2	+0'2	84'6	84	
П	South 24-Pergu	nnahs)									en 0	tunn.	-	83.2	201	65'5	80	
ii ii	Midnapore		Midnapore	•••	*449	*583	-	SE	P	93.2	77 2	89.1	77:8	00.0		100		
ŀ	24-Pergunnahs					*588	07.0				77-7	89'8		84.2	+0.7	84'9	80	
90	Howrah		Calcutta	***	.266	900	-016	SE	147	92.		00.0	78.5	1				
90	Hooghly)	Burdwan		*****	*603	-007		89	94.6	78'4	91.3	79.0	85.2	+0.3	85.0	77	
86	Burdwan		burdwan	***	*503	000	-007	E	99	514.0		01.0	700					
ν	Bankoora		Ranigunj		*233		_	NE	9	93*5	77'8	89'1	78.7	83.9	7	84'9	73	
H	Beerbhoom West Burdwan		annighting.	•••	200			NE		80.0		75.5	,0,		3/11/			葵
80	Moorshedabad		Berhampore	***	*561	'627	+016	Е	121.3	93.7	77.8	90.1	78'5	84'3	-0.8	83'6	84	H
1	Nuddea							-						-		1		
H.	Jessore)								1				041	0.0	843	84	
70	Khoolna	}	Jessore	•••	.579	613	+009	SE	139.3	94.6	77:2	90.2	78'8	84'5	0.0	040		
8	Chittagong		Chittagong		*569	*658	-028	SE	110	88'1	76.0*	87'1	76*9	82.0	+0.5	83.6	82	36
ж	Chittagong Hill		Demngri	***						Obs	ervatory	not star	ted.	0.715		Market S		
g i	Backerguni		Barrisal	***	.606	-	-	v	207.7	91.6	77:8	88'4	78-2	83'8	200.57	84.7	81	
	Noakholly		Noakholly							1	Not comp	nenced.		1	1	- 0		Will So
ł	Furreedpore		Furreedpore		*525?		-	SE	174.6	91.5	76.9	87'9	78.4	83.5	-	85'1	79	100
	Dacea	*** ***	Dacca	***	*592	*627	-022	SE	99	93'8	75.6	90.7	79:0	81.0	+0.7	87'8	77	M
	Commillah		Commillah	***	.208	.031	-	SE	9	87.6	75.8	84.2	77.8	80.8	-	84.7	70	10
	Mymensingh		Mymensingh	**	'591	-	-	E	130	94'3	77.2	90.7	78.9	84.8	-	84.3	82	10
H	Bogra and Pub.	aa	Serajgunj	•••						?	Not com			1		01:0	81	
	Rajshahye		Rampore Beau	leah	'523	'597	-	NW	161	95.1	77.6	91.2	78.7	82.0	100	84.6	68	iż.
	Dinagepore		Dinagepore	***	*499	-	-	SE	141	97:6	78.1	92.7	79'5	861		89.8	76	
	Rungpore	***	Rungpore	***	.616	-	-	SE	110	97.8	74.6	98.7	78'7	86.3	-	00.8		No.
F	Julpigoree	}	Julpigoree		*331	-	-	9	113	96.9	77'1	91'4	79.5	84.8		85'4	82	6
383	Cooch Behar)								200	1	****		62.9		65'3	90	8
F	Darjeeling Hill	Districts	Darjeeling	***	92.927	-	-	E	58	70.6	70.0	68.2	73'1	81.5		89:2	71	rd
W	Shahabad	}	Dehree	***	29-241	.290	-	Variable NE	172	97.5	79.7	94.5	81.1	87.8		96.7	64	S
		-	Buxar Gya	***	'344	*542	-062	E	58	99'2	74'8	93.3	76.6	85'0	0.6	89:9	67	ĺĝ.
ED.	Gya Patna	***	Bankipore	41	201	*598	+008	E	137	100 0	80.7	94.0	82'0	88'0	+17	89 0	70	
a 0	South Bhagulp	ohe 3	Dinikipoto	•••	917	000	1,000			1000								13
ж	Monghyr		Bhagulpore	***	'448	.290	-	SE	103	98.9	79.0	83.9	79.9	86.9	-	88'8	71	
я	Sonthal Pergun	nabs	Doomka	***	1118	-	-	SE	- 1	93.1	75.8	90'1	76'8	83'5	_	84'2	89	1
74:	Purneah)			1	2.8.55				11140000						9910	73	120
	North Bhagulp	ore}	Purneah		'479	*604	-005	Е	41	98'2	788	93.5	80.0	86.7	+21	88.9		
ÆΕ	Mozufferpore Durbhunga	}	Durbhunga	***	1442	'607	+019	ESE	127	96.4	79.0	92.1	81*1	86.6	+1'9	88.2	76	
H.	Chumparun	*** ***	Motihari	***		_	_	E	-	97'1	78'5	93.7	79-6	86'2	-	90.1	60	1
В.	Sarun		Chupra		'405	100		Е	41	95.9	77'0	94'1	81.1	87:6		89'8	62	
34.	Hazaridagh	***	Hazaribagh	***	27'603	29-579	-003	E	199	87'5	78'6	84:7	74.2	79.5	-0.8	81.6	77	1
Œ.	Lohardugga)			2000	1150	THE USE	T1-019	An exp	To be being		ACTO TO	12.11	British Sk			1	1
1	Manbhoom	}	Ranchee	***	1 1000	100			27114		Not comm	nenced.		ed to the last	1	SING	200	1
1	Singhbhoom	*** ***	Chybassa	111	10. 1					ACCOUNTED	Too Eco	1		None S	1507	The latest	1 505	16

Explanation of Summary.—The normal means of air pressure and temperature are the arithmetical averages or means of the readings during the same The humidity of the atmosphere is expressed as a percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overeast sky vations, rainfall," the normal means are the numerical means or averages of the rainfall in that district determined from the returns sent in by the sub-division that district (i.e.) the total rainfall at the sub-divisional stations in the district sending in returns divided by the number of stations. A rainfall of the commenced on the 1st July.

for the week ending 13th July 1883.

	A CONTRACTOR				DISTRICTO							1		I	
, B	1 25			er frits junio en	RAI	INPALL.	100		700		30X				
statio	or	week.		e 1st of mont	h.		e 15th May.		number; ny days he week,	days	Representative station.	0	DISTRIC	r.	
observing station	Normal mean for district.	Average for district.	Mean for district,	Normal mean,	Variation.	Mean for district.	Normal mean.	Variation.	Average num of rainy during the	Normal num of rainy of week,		-			
25			2-1-1	1100		,			1		Gopalpore	1/	Proven	1	
181	2'48	3.56	8'34	4'50	+3'84	25.60	15.00	+10.21	5.7	4.2	False Point		Pooree	***	***
'98	5.61	4.07	6.77	5.01	+1.76	23.73	15.57	+8.16	4.0	3.8	Cuttack		Cuttack	***	
168	8'45	8'94	6.85	5'51	+1.31	24.71	15.26	+9.45	5.5	4.0	Balasore	1	Balasora	10	***
	3.83	3 23	7.93	6:26	+1'67	19.70	18:67	+1'17	4.0	4'5	Saugor Island		South-West M		
3-65	0.00	0.20		0.00		10.10					on Hot Jonnia !	1	South 24-Pergur	mah	s
63	-3'08	1.51	2.76	5'54	-2.78	10.93	17'58	-6.65	5.0	3.9	Midnapore		Midnapore	101	***
1												1	24-Perguunahs		***
ממיו	2.37	0.86	3.94	4.16	-0.23	14.95	17:39	- 2'44	5'1	4.9	Calcutta .	-{	Howrah		***
	100				1							U	Hooghly		
0.92	1.99	0.82	1'44	3.86	-2.42	14'47	15.16	-0.69	4.3	3.8	Burdwan		Burdwan		***
												1	Bankoora		
9.95	8.02	0.86	2.70	4:91	+2.21	18:39	17 49	+0.50	3.4	4'5	Ranigunj .		Beerbhoom		
100								_				U	West Burdwan		***
0.63	2'44	0.34	1'33	5'64	-3.71	15.13	16-91	-1.78	1.7	4.2	Berhampore	1	Moorshedabad		***
	2'40	0.74	2.01	4.73	- 2.72	13'44	18.40	-4.96	3.0	4.0			Nuddea		
	1115		0.00		-1:31		- and				•	5	Jessore		***
0.40	2 06	1.12	3.02	4.33	-101	14'44	20.65	-6.51	8.7	4.7	Jessore .	(Khoolna	***	
1.94	6.50	2.00	3.20	11.01	-7.42	56.26	45'77	+10.79	6.0	5.6	Chittagong		Chittagong		
	3'19	1.55	2:32	5.77	-3.45	23.09	29.27	-6.18	6.0	5.6	Demagri		Chittagong Hill	Marine Line	
1'93	3.61	1'79	2.83	7.10	-4.27	22.21	32.24	-9.73	5.0	5.0	Barrisal		Backergunj		
- C	40.9	8.01	4'43	8'84	- 4:41	47.90	42.77	+5*13	5.0	5.8	Noakholly		Noakholly .	***	
0.36	2:39	1.51	1.65	4.82	-3.17	13.23	22'33	-8.80	4.7	4'8	Furreedpore		Furreedpore		***
1.02	2.77	1.85	2.62	5.03	-2.41	13.20	23.21	-9.62	4'3	4.6	Dacca		Dacea	***	
2.36	2.97	3'33	5.21	5:43	-0.55	26.63	28.03	-1'40	4'5	5.0	Commillah		Commillah		
2.21	8.48	1.09	1.68	6.00	-4'32	15.59	28:35	-13 06	2.5	4.6	Mymensingh		Mymensingh		
	2.89	1:11	1'74	5'24	-3.20	15.74	21.64	-5.50	2.7	4.0	Serajgunj		Bogra and Pub		,,,
0.20	2.95	0'59	1.33	5.79	-4'46	14.02	19.26	-5'24	2.3	4.2	Rampore Beau	leah	Rajshahye		
0.51	2.71	- 0.55	0.61	5'49	-4'88	14.99	24.35	-9:36	1.6	41	Dinagepore	***	Dinagepore	***	
0.88	4.54	0.20	1.17	7.14	-5.97	17.56	36*33	-18.77	2.0	37	Rungpore		Rungpore		
Paris			AND THE STREET			11 11 11 11 11						0	Julpigoreo	***	
1.00	3:91	0.63	1.52	7'44	-6.19	32'66	49 87	-17'21	3.2	4.7	Julpigoree	{	Cooch Behar		
2.01	10.81	1.78	4:17	19.76	-15.29	58'25	64.71	-6'46	3.7	6.0	Darjeeling		Darjeeting Hill		ricts
1.36	nonil.		C. Sales	1111		- 7					Dehree)			
-	2'89	0.12	1.77	4.72	-2.52	9.76	10.68	-0.92	0.8	3.9	Buxar	}	Shahahad		
200	2.35	0.10	2.28	4'78	-2.50	13.89	11.57	+2.33	0.7	3.2	Gya	***	Gya	12	
100	2'48	0.35	1.85	5'14	3.59	18'49	12.45	+6'04	1.3	3.8	Bankipore			***	
										1	Dansaporo	-	South Bhagul	nora	
0.12	2:31	0.32	1.07	4'80	-3:73	12'84	12.95	-0.11	1.6	4'2	Bhagulpore	}	Monghyr	9	
0.53	2'88	0.71	1.70	5'44	-3'74	15.08	16.20	-1'42	8.5	4'3	Doomka		Sonthal Pergui	nnah	
			FE 3			244			0.4		aronum.		Purneah		
0.15	2.82	0.50	1.87	6.68	-4.51	26'02	19:49	+6.93	1.8	4.1	Purneah	}	North Bhagul	nore	
AU P	13.13	- Lille Ship to	A DE NO	The season	Victor and the				1000	1	-		Mozufferpore		
0.14	2.72	0.52	1.82	5.81	-8.99	18.28	13 72	+4.26	0.8	3.3	Durbhunga	}	Durbhunga		
Effy	3:32	5.03	9:00		-1.82	10.02	3,5105	-5'32		3.5	Motihari			***	530
0.01	Brain Park	A SHOW A SHOW SHOW	8:09	5.21			15'87	A CONTRACTOR	0.8	The same			ALL HARDS A FEB		
3:47	of detailed	0.51	2.95	4*85	-1.00	12.81	12.86	+0.45	0'5	3.6	A Share San San San San		THE CONTRACT PROPERTY.		
1000	0.09	2:10	5.39	2.21	-0.15	13.03	15'42	-5.29	3'7	4.8	Huzaribagh		A STANISH THE REAL PROPERTY.		
A STATE OF	2.86	1'78	5.99	5.10	+0.89	18:32	14.33	+4'00	4.0	4.7	Ranchee	***	Lohardugga		
	2:31	2.00					A Thursday	E TULBERO	1				Manbhoom	1	114
		THE RESERVE OF THE PARTY OF	6'12	4'31	+1'81	15'67	18.50	-2.83	4'0	4'9	Chyebassa		. Singhbhoom		

period for the past 12 years. The variations are negative when the mean for the week is less than the corresponding normal mean and positive when greater, by 10. The number denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head "district obsersional stations for the period in question during the past 12 years. The "means for the district" are the numerical averages of the rainful returns received day is one on which at least an hundredth of an inch fell.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 13th of July 1883.

			At I de S		R	AINFALL		AD THE	Man ha	Tot	al.				
Meteorological	District.	Station.	di.	8th	9th	10th	esday,11th	r, 13th	13th	. of	6	Total rain- fall from 1st to 13th	Average total rain- fall from	Total rain- fall since	rainfall from 15t
division.			Saturday, July.	Sunday July.	Monday, July.	Tuesday, July.	Wednesda July.	Thursday, 12th	Friday, July.	Number rainy days.	Rainfall week.	July,	1st to 13th July.	15th Msy.	May to
Oris8a	Pooree	Pooree Khurdah Banpur False Point Hookitola	0.40 1.60	0°21 0°53 0°47 0°26	0'20	0°07 0°04 0°37	0.60	0°48 0°66 1°00 0°38	1.76 0.17 1.07	6 6 5	8:43 4:00 3:24	8'82 9'02 7'63	3:54 4:68 4:58 5:24	27°71 28°87 28°15	12.4 16.3 14.8 16.7
	Cuttack	Jagatsingpore Banki Outtack Kendrapara Jajpore	0.70 2.66 1.55 0.03 3.30	1'3 0'12	1.64		0°16 0°05	1'50 0'19 1'60 1'36	0°50 1°09 1°70 0°55	3 6 3 4	2°70 4°64 8°88 5°61	6.43 6.87 4.43 9.06	3.91 P 5.33 4.37 6.38	34·85 21·45 26·32	12.2 9 16.8 14.6 18.0
	Balasore	Chandbali Bhuddruck Sorah Balasore Jedasore	0°25 0°12 0°25 0°39 0°48 2°14	1°10 0°35 0°38 0°07 0°59	0.10 0.40 0.09 0.90	0.90	0 42 2 10	0'76 1'80 0'40 2'60 0'80 1'50	2:17 0:32 0:40 0:85 0:37	5 4 6 5 7	4:38 2:66 3:90 3:81 4:64 4:25	7:28 5:33 6:72 5:87	6'41 5'13 4'73 5'93 6'96	34'46 23'96 23'62 27'24	12 4 16 7 15 7 15 7 15 7
SOUTH-WEST BENGAL.	Midnapore	Contai Saug-r Island Tumlook Midnapore Ghattal	0.20 0.41 0.13 0.20	0°14 0°35 0°02	0.08	0.12	0.02	3:41 2:99 1:60 0:16	0°21 0°28 0°34 0°77	5 4 1 2 3	4'11 4'03 1'60 0'61 1'42	9°15 9°11 8°10 2°43 2°77	5°85 5°76 6°48 4°04 4°93 7°66	24'05 22'67 11'50 10'15 11'15	161 171 181 151 161 201
	24 Pergunnahs	Diamond Har- bour. Alipore Jail Barrackpore Dum-Dum Baraset	0°51 0°12 0°15 0°04	0°45 0°40 0°03	0°11 0°08 0°40 0°20 0°11	0 03 0 06 0 01	0.08	0.00 0.10 0.00 0.05	0.03	8 7 2 6 5	1'54 1'49 0'50 1'22 0'28	5°52 4°83 3°01 6°90 8°83	6°56 4°58 3°99 5°87 8°71	12°37 14°74 14'43 16'72 14'67	1978 1778 1779 1877
	Howrah	Buseerhat	0°10 0°12	0°24 0°47 0°24	0.10	0.05	0.51	0.41 0.41	0°02 0°04 0°03	6 6	1.41 1.25 0.61	5:38 3:96 3:90	4.62 5.36	20°93 13°85 12°86	19:4
	Hooghly	Serampore Hooghly	0°13 0°05 0°09	0°42 0°26	0.03	0.00	0.07	6,02	0°01 0°25	7	0.4 0.61	2.69 2.81	4.07 3.77	14'41 13'89	16:2 15:7
	Burdwan	Culpa Burdwan Cutwa Rancegunge	0.13 0.12 0.02	0.15 0.52 0.52	0.05 0.07 0.25	0.02	0.01	0.01	0°28 0°85 0°14	3 4 6 8	1°18 1°04 0°34	2.05 2.19 1.23 0.92	5'78 4'00 3'88 8'72 4'51	12.87 14.05 10.27 13.12	18"2 15" 15" 14"
	Bankoora	Bankoora Bishenpore Maliara Khatra	0.21 0.36 0.98	0°07 0°18 0°16	0.12			0.33		3 1 4	0°43 0°33 0°82	2.68 1.71 2.42	4'67 5:59 5:07 4'8#	11-23 16:30 16:22	10' 10' 17'
	Beerbhoom	Bh. Soory Hetampore	0.09	0.07 0.51	0°14 0°21		******	0°26 0°26	0.47	5	2.03 0.71	4.73 1.58	5 51 4·17	27°49 18°25	17 18
	Nuddea	Bongong Ranaghat Kishnaghur Chooadanga Mcherpore Kooshtea	0.0	0.12	0°08 0°05 0°32			0°10 0°24 0°07 0°11 0°21 1°79	0.24	4 3 2 2	0.71 0.20 0.43 0.36 2.01	3.07 0.46 1.13 2.08 2.90	4'95 4'32 4'68 5'12 4'42 4'86	16.01 6.66 8.62 15.12 20.33	19° 16° 15° 19° 17
	Khoolna	Satkira Bagirhat Khooina	0°21 0°15 0°15		0.31			0.32	0.07	8	0.68	6:48 2:61	4460 5°80 4°44	21.21	26° 23° 20°
	Jessore	Narail Jessore Jhenidah Magoorah	0°11 0°10	0°12 0°05 0°30	0.23 0.09 0.11		******	1'60 0'44 0'49 0'25	0.08 0.08 0.16	4 4 5 2	2:41 0:69 1:08 1:15	2.73 1.93 2.02 2.34	3°13 4°02 4°13 4°63	14°68 16°32 12°93 15°98	18 21 21 21 19
	Moorshedabad	Kandi Rampore Haut Berhampore Laibagh Azimaunge Jungipore Laigola		0.06	0°35 0°33 0°21	0.04		0°27 0°59 0°11 0°24 6°06		2 2 3 2 2 2	0°32 0°94 0°48 0°45 0°12 Nil 0°06	1'52 1'86 1'51 1'24 0'50 2'12 0'54	5°89 4'08 5'09 4'56 4'38 5'41 6'00	14°95 18°44 15°54 12°90 15°12 16°07 12°83	18' 15' 17' 16' 17' 16' 17'
CAST BENGAL	Chittagong	Cox's Bazar Chittagong	0.08	0°10 0°55	0°40 0°99	0.03	0°43 0°34	0°28 0°26	0.53	6	1°32 2°68	3.44 3.44	14°87 7°14	60°25 50°39	55°
	Chittagong Hill Tracts.	Rangamati Ruma Agartola		0°13 0°28 0°10	0.11	0.04	0.42	0.07	0°45 1°88	6	1'22 3'18	2·77	6'81 4'71 4'44	24°26 24°42	80° 27° 23°
	Backergunge	Patuakhally Perozepore Burrisal Bhola	0°13 0°03 0°27	0°37 0°45 0°40 0°04	0°30 0°40	0.02	0.18	1°10 0°16 0°18 0°26	0°15 0°52 1°07 0°71	5 5 6	1.67 1.44 1.98 2.08	8°23 8°36 2°47 2°32	9'04 6'41 6'07 6'88	24'67 20'23 20'19 25'00	37: 26: 27: 36:
	Nonkholly	Noakholly Fenny		0.50	0°98 0°82	0.03	0.53	0°87 0°19	0:84 0:96	6	3.81 2.20	5.83 3.02	8'82 8'86	47'38 47'53	41 43
	Furreedpore	Madaripore Furreedpore Goalundo	0.19	0.83 0.83	0°14 0°13	0.17	0.51	0:79 0:12 0:30	0:45 0:17 0:06	. 5	2.70 0.51 0.54	3 05 1 03	4'97 5'07 4'41	15°20 14°52	22 23 20
	Dacca	Munshigunge Dacca Naraingunge Manickgunge	0.01	0.03	0°19 0°09 0°09 0°07	0.03		0.06 0.42 0.49 0.77	1.10 1.91 1.91	4 5 5 5 3	1:39 1:56 2:01 2:45	2:33 2:44 9 2:80	6.08 4.41 7 4.61	13:91 P 11:74	27 23 18
	Comilia	Comilla Chandpore Brahmunberia	0.03	0.50	0°02 1°25 0°09	0.10	0°42 1°75		2°14 2°50 1°35	4 5 5	2.61 5.80 1.71	4'93 7'20 5'08	5'55 5'73 4'28	28*33 26'45 19'98	29 32 25
	Mymeusingh	Kishoregunge Atin Mymetisingh Jamaipore Netrokona	0.04	0'45 0'06 0'85	0°34 0°97	0 00	014	0.03	0°73 1°12 1°46 0°11 1°45	1 3 5 2 5	0'73 1'48 3'08 0'17 4'02	1'49 1'70 8'08 0'54 4'78	5:35 4:30 6:11 5:70	15'10 17'18 17'08 11'50	30 22 27 23

Exponention, indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 13th of July 1883—concluded.

			200		R	AINFAL	de .	Shirt Street Street		To	TAL.				
Meteorological division.	District.	Station.	sy, 7th	7, 8th	y, 9th	Tuesday, 10th	sday.	lay, 12th	. 18th	days.	1 of	Total rain- fall from 1st to 13th	A verage total rain- fall from 1st to 18th	Total rain- fall since 15th May.	Average rainfall from 15th May to
			Saturday, July,	Sunday, July,	Monday, July,	Tuesda July,	Wednesday, 11th July.	Thursday, July,	Friday, July.	Number of	Rainfall week,	July.	July,		date.
NORTH BENGAL	Pubna	Pubna Serajgunge		0.11	0.06 0.45	0.11		1'82	09:0	4	2.10	3'09 1'27	4'48 4'98	15°98 17'49	19.89 20.28
	Bogra	Sherpore	11		0.32	0.93			1.10	2 3	1.45	8.01	6.18	11.17	23.49
		Bogra Panchbibi			0.56	0.06			0.31	2 2	0°22 0°37 0°36	0.61 2.05 0.77	4°55 6'82 6'94	9°53 12°33 12°97	21'16 25'08 22'18
	Rajshabye	Beauleah			0.32	0*18		0.02	0'40	8	0.28	1.23	5.65	11:14	18'54
	Maldah	Maldah			0 66	******		0.04	0.09	3	0.40	1°60 0°82	6:14 5:59	11.25	20'33
	Dinagepore	Mohadebpore Churamon		0.52					0.50	2	0.42	1.40	5-20	10.46	26.38
		Raigunge Dinagepore Baloorghat		0.30 0.30	0.06 0.53			111114	0.05 0.04	3 8	Nil 0°38 0°28	0°20 0°54 0°52	5:35 5:15 6:25	13°92 14°72 10°49	20°02 24°64 27°46
	Rungpore	Bhawanigunge		*****	0.14	******	*****		0.16	2	0.30	2.00	5:20	23.65	25.06
THE PERSON NAMED IN		Rungpore Korigram Baguogra			0.05	******			0.48	2	0.80	0.84	9°46 7°23	18:07	35 77 38 80
	Julpigoree	Julpigoree	0.02	0.07	0.15	0.44	0.65	0.11	0.08	6	0.39	0°39 3°25	6.68	23.53	44°73 47°63
	Cooch Behar	Dinhatta Cooch Behar		0°19 0°19	0.34	0.52				3 3 2	0°58 0°42	0.98 0.42	8°88 10°76	94°53 35°57	48'04 55'55
		Mickligunge Matabhanga	,	0.05	0.60	0.16				3 2	0.62	0°21 1°38	4.67 5.96	31°96 41°93	46:43 51:66
	Darjeeling Hill,	Buxa Silliguri Parjeeling Kalimpong	1'92 1'80	0.05 1.18 1.00	0:40 0:02 0:50	4.46 0.45 0.25 0.53		0.03		4 3	1.79 1.93	4°35 5°93	25.86 9 13.88	46.70	87.95 41.48
North Behar	Purneah	Kissengunge Arrareah Purneah	*****		0.04	6.08		0.50	0.25	2	0/31 0/22	3°23 3°94 1°14	8:04 6:27	28°65 80°62 13°13	26'74 22'39 19'27
printed	North Bhagul-	Maddapore				******			0.728	2	0.18	246	5:48	50-67	MELLINE TOWNSON
	pore. Durbhunga	Soopool Tajpore		*****					0100	-	Nil	0:07	5.46	24 67 16 29	14.41
		Durbhunga Madhubani			0.10			*****	0.46	2	0.28 0.26 Nil	1.49 0.88 1.71	5'66 6'14 4'86	21.12 17.78	13°16 14°62 14°62
April Delivery	Mozufferpore	Sitamarhi Mozufferpore Hajipore	****** *****						0.34	1	Nil 0:34 0:04	2:04 1:16 0:63	5°17' 5°67 4°62	10.05 22.03 16.35	14'68 18'48 11'78
	Chumparun	Motihari Bettiah	0.10			*****				<u>-</u>	Nil	4.80	4.68	11°71 11°34	16'4' 17'1
		Gopalgunge		1977					0.42	-	Nil 0'42	5°37 6°90 1°92	6'88 5'52 5'11	9'75	14.2
BOUTH BEHAR	Shahabad	Chuprah							0.04	1	Nii	3.51	4:59	9'45	10.01
	The state of the	Debree	0.06						0.28	2	0.04 0.64 Nil	1'57 4'25 9'60	4.76 5.06	3.90	11'15
	Control of the Contro	Sasseram Arrah	**		*****				0.09	1	0:09 Nil	1.77 0.67	4'61 4'60	10.21	10°3.
la de la companya de	Gya	Aurungabad Gya				*****				=	Nil Nil	3.04	4.88 4.26	13.04	11.0
		Jehanabad	******	******	0.11			0.18		2	0 29 Nil	3.11 3.11	5°27 4°71	13:42	12.78 10.91
	Patna	Patna Dinapore	*****	******	*****				0°57 0°10	1	0.20	1°33 1 40	4·55 4·67	16°31 12 50	12.70
		Behar Barrh	0.64	0*04	0.03					1	0.03	3.54 1.38	5·51 5·82	15.82	12.00
	Monghyr	Begooserai Monehyr Jamui		6'14	0°03 0°92			0.12	0.11	1 3 2	0.09 0.58 1.04	1.39 0.39 1.36	4*72 5:23	22'09 10'58 8'21	71'28 13 ± 12'96
1	South Bhagul-	Bhagulpore Banka		0'15	0.51					1	0°15 0°21	0.52	4.53	15.67 7.76	12.6
and agent of the	Sonthal Per-	Rajmehal			0:33			0.22	*****	2	0.88	0.88	6'64	9:84	19'2
	gunnahs.	Gouda Pakeur Nya Doomka	0.08	0.58	0.12 0.12 0.02	0.05		0.04	0.35	2	0'15	2.13	4.65 6.00	8 40 91 78 17 44	18'46' 18'46' 16'11
		Deoghur Jamtara	0.03	0.11	0.97	0.10			0.49	. 3	0.63 0.69 1.47	2·15 1·87 2·25	4°90 5°90 4°53	16.62	16'21
CRUYIA NAG-	Hazaribagh	Pachamba Hazaribagh Semtagurh Mahudi Hills	0°17 1°47 0°15 1°04	0°40 0°12 0°27	0°48 1°25 0°71	0.05	0.18		1.46	5 3 3	#48 2'84 0'99	3:37 7:39 2:93	5°38 5°52 6°13	11'79 15'99	15°86 13°7: 17°3
	Lohardugga	Ranchi	1'90	0.35	0.52	0.40		0.22	0.40	6	3:88	9.08	5:00	24.73	147
	Singbboom	Palamow Chyebassa	0.98	0.07	0.79	0.80	*****			8	1.32		5'17		12.5
	Manbhoom	Purulia	e:60	0:19	0.28			0.18	0.13	4	2.93	6:12 7:23	5.08	15.67	15:0
		Gobindpore	0.46	0.09	0.08					3	0.03	1:89	5 26	10 71	15.1

wanting, the corresponding spaces in the total rainfall columns are left blank. If some of the returns are

SUMMARY OF METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, 13th JULY 1883.

It was stated in last week's report that a feeble cyclonic vortex had formed at the head of the Bay, and advanced slowly westwards during the latter part of the week. The centre was approaching and near to the Orissa coast at the end of last week. It crossed the Balascre coast late on Saturday evening and advanced over the North Orissa hills into the Central Provinces, where it apparently broke up on Monday after having given moderately heavy rain to South-West Bengal, Orissa, Chutia Nagpur, and the northern districts of the Central Provinces. The southerly winds which were established over Bengal on Saturday and Sunday, with the passage of the vortex across the Orissa coast, gave frequent light to moderate showers over the greater part of the Province. On Tuesday morning a rapid fall of the barometer at the stations on the east coast of the Bay, and a shift of wind at Akyab to north-east, indicated the commencement of the formation of another cyclonic vortex. It developed slowly on Wednesday, and commenced to move westwards on Thursday morning, advancing along a path some distance to the south of that of the two preceding vortices. Northerly winds set in over the north-west coast of the Bay on Wednesday morning, and gradually extended inland. The suspension of the southerly winds at this time, and the indraught from the north to the vortex, diminished humidity, and partially cleared the sky from cloud in North Bengal and Behar. Temperature also increased rapidly, and unusually high maximum day temperatures were registered in North Bengal and Behar, more especially on Thursday, after which temperature began to diminish. The westward advance of the vortex on that day began to give overcast skies and moderate rain to South Bengal and Orissa. The cloud amount increased considerably over the whole Province on Friday, and rain fell in every division. The vortex crossed the coast to the south of False out near Gopalpore on Friday evening, when southerly winds were again established over the Province. They are now giv

In consequence of the peculiar meteorological features of the week, little rain fell in Behar and North Bengal. Over the whole of that area the weather was that which is usually associated with a short break in the rains.

The variations from the normal conditions during the past week have been large. The average pressure was generally below the normal by small amounts except at the Orissa stations, where pressure was very low as contrasted with the remainder of the Province, in consequence of the passage across it of two cyclonic vortices. The deficiency at False Point was a tenth of an inch. Temperature was above the average except in Orissa. This was most marked in Behar and North Bengal, for which the mean temperature of the week was probably 2° above the normal. Winds varied considerably in force during the week, but were normal in direction except in South-West Bengal and Orissa, where they shifted with the position of the vortices. The sky has been on the average more than half covered with cloud except at Buxar, Motehari, and Chuprah, the most westerly stations in Behar, and at Bhagulprore

Bhagulpore.

The following table gives the usual summary of the temperature and rainfall data for each of the seven meteorological divisions of the Province:—

Week ending 13th July 1883.

10 Max			ТЕМІ	ERAT	TRE						RAI	NEALL.			ri and	The
	week.	week,	Avera	age for	week.	above or eek.		Of we	ek,	R	ainy d	lays.		ec 1st	Since 151	
METHOROLOGICAL DISTRICT.	Highest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week a below normal mean wee	Average.	Nermal Jaarage,	Variation,	Average number in week,	Normal average nnm- ber,	Variation,	Average.	Normal average.	Arenge.	Normal average.
Orissa Senti-West Bengal East Bengal North Bengal North Behar South Behar Chutia Nagpur	93'4 94'6 94'3 97'8 101'9 98'2 87'5	74.8 77.0 75.6 74.8 74.8 77.0 73.6	87°0 89°9 88°2 99°3 93°2 93°1 84°7	78°7 78°6 78°1 79°1 78°5 80°5 74°2	82:8 84:3 83:2 85:5 85:9 86:8 79:5	-1.3 0.0 +0.4 +0.6 +2.0 -0.3	3:89 0:99 2:18 0:59 0:20 0:37 2:05	2.93 2.56 3.50 3.85 2.86 2.59 2.94	+0.96 -1.57 -1.32 -2.79 -2.66 -2.22 -0.89	4'9 3'5 4'6 2'4 0'8 1'6 3'9	4'0 4'4 5'1 4'3 3'6 4'0 4'8	+0°9 -0°9 -0°5 -1°9 -2°8 -2°4 -0°9	6.64 2.99 3.30 1.26 2.13 1.77 5.59	5°07 4°79 6°28 6°32 5°54 5°00 5°20	25°06 17°28 22°80 21°89 19°62 12'48 15°00	15°26' 17°66' 30 84' 32°86' 13°51' 14°62' 16°38'

The preceding table shews that Orissa is the only division which received abundant rain. In Chutia Nagpur and East Bengal the rainfall was slightly in defect. Over the rest of the Province the rainfall was very small in amount. In North Bengal and Behar it occurred merely as local and light showers, which on the average gave from 10 to 20 per cent, of the normal rainfall for the week. Over the same area the average number of rainy days during the week was only half, as contrasted with the normal number 3. Hence an almost complete break in the rains prevailed in that part of the Province during the week.

Saturday, 7th July.—Pressure fell rapidly in Orissa, and to a less extent in Chutia Nagpur and the adjacent districts of South-West Bengal. It increased over the remainder of the Province, the rise being largest in North Bengal. The rapid fall in Orissa was due to the slow westward movement of the cyclonic disturbance, the centre of which, at 10 A.M. was in the north-west angle of the Bay, and approaching to the North Orissa coast. It crossed the Balasore coast in the afternoon. The disturbance was a small one, but it originated in the same part of the Bay and marched along the same path as the vortex of the fortnight previous. Temperature was rising over the Province. Te mean temperature of the past 24 hours was 4½° below the mean in Orissa, and 2° in Chutia Nagpur and South Bengal. It was 2° above it in East Bengal The barometric depression at the head of the Bay continued to be fed by moderate winds and according to the barometric depression at the head of the Bay continued to be fed by moderate winds and according to the barometric depression at the head of the Bay continued to be fed by moderate winds according to the barometric depression at the head of the Bay continued to be fed by moderate winds and according to the barometric depression at the head of the Bay continued to be fed by moderate winds and according to the barometric depression at the head of the Bay continued to be fed by moderate winds. variable in North Bengal, easterly in Behar and Chutia Nagpur, and north-easterly to north-westerly in Orissa. The air was unusually dry over a large part of North Bengal and North Behar. The amount of cloud was generally less than on the 6th. Skies were overcast at the majority of stations in Orissa, South-West Bengal, Chutia Nagpur and the Gya district of South Behar.

Rain occurred chiefly in connection with the cyclonic di-turbance and was fairly general in Orissa, the south-western districts of South-West Bengal and Chutia Nagpur. A few light showers of no importance fell in East and North Bengal. Tajpore in the cuttack district

received the heaviest amount-3 3 inches.

Sunday, 8th July.—Pressure was increasing rapidly in Orissa and in South-West Bengal.

The changes elsewhere were small and unimportant. The cyclonic disturbance was now advancing and near to the North Orissa hills. Temperature was generally slightly lower than on the 7th. Winds were normal in direction. The monsoon winds at the head of the Bay were feeble. Little change took place in humidity. The chief feature was low numidity in Eastern Bengal. The sky was overcast at a few stations, but was generally more than half clouded. General rain, light to moderate in amount, fell in Orissa, Chutia Nagpur and the adjacent districts of South-West Bengal. Light local showers also fell in the eastern districts of South-West Bengal, East Bengal and the northern districts of North Bengal.

The rainfall was unusually light over the greater part of North and East Bengal.

Monday, 9th July-Pressure had increased at the great majority of stations. was rather large in Orissa, but elsewhere the changes were small and of little importance. Pressure was generally below the average by small amounts. Temperature was again rising. The mean temperature was about 1° below the average in Orissa and South Bengal, and 2° below it in Chutia Nagpur and the Gya district. It was slightly above the average in South and Central Behar. The highest maximum temperature was 95.5° recorded at Chupra. Winds were generally normal in character. Light to moderate monsoon winds were blowing at the head of the Bay. The air was much damper in East Bengal and the sky was over-cast at the majority of stations in East and North Bengal. It was almost free from cloud in South Behar. Light local showers of little importance fell in every division of the Province: they were slightly heavier and more general in North and East Bengal than elsewhere. A partial break in the rains commenced with the passage of the previous cyclonic vortex across the Orissa hills.

Tuesday, 10th July .-- Pressure increased during the preceding 24 hours over the whole province by small amounts, except at (hittagong. A large fall at that station was the first sign of the formation of an area of low pressure off the Aracan coast. Pressure exceeded the normal by small amounts, except in Orissa and at Gya, where it was slightly in defect. Temperature was increasing steadily and was generally above the average by small amounts. The mean temperature of the past 24 hours was 1° above the normal of small amounts. The mean temperature of the past 24 hours was 1° above the normal of the day in Behar. The highest maximum temperature of the day was 95.9° at Buxar. Winds were again lighter at the head of the Bay. They were generally unchanged in direction except that westerly winds had set in at Cuttack and False Point. They were probably due to the depression now forming. The sky was overcast at two or three stations in South Behar, and was almost cloudless in South-West Bengal and North Bengal. Light showers fell in every division during the preceding 24 hours. They were fairly general in North and East Bengal. The heaviest reported fall was 4.46 inches at Buxa in the Bhootan. Duars. Elsewhere the showers were very light, and limited in extent and of Bhootan Duars. Elsewhere the showers were very light and limited in extent and of little importance. Weather was fine with passing clouds and light local showers except

in Behar, where no rain was falling.

Wednesday, 11th July .- Pressure was increasing in Behar, Chutia Nagpur, and at a few stations in South-West Bengal, and was now falling elsewhere. The changes were small except at Chittagong and Akyab, where the barometer was now falling rather rapidly. The area of low pressure and cyclonic air motion of the Aracan coast was more clearly marked than on the 10th and was slowly developing into a feeble disturbance. Pressure was slightly above the average of the day, except in East Bengal and Orissa, where it was in defect. Temperature was increasing rather rapidly, more especially in Behar. The mean temperature of the past 24 hours varied from the normal of the day by amounts averaging 10 in Bengal and 4° in Behar and Chutia Nagpur. The highest temperatures for this day were 98.9° at Buxar, 98°, at Patna, and 9.75° at Dehree. Winds were very light at the Head of the Bay and had shifted round to north-east at Balasore and False Point, and to north-west at Gopalpore. Light easterly winds prevailed generally in North Bengal and Behar. The air was drier, more especially in South Behar. The cloud amount was smaller also everywhere and was least in North Bengal and Behar. A few light showers of little importance fell in Orissa, South-West and East Bengal, and in and near the Darjeeling Hills. The

break in the rains now extended over the whole province.

break in the rains now extended over the whole province.

Thursday, 12th July.—Pressure gave way over the whole province, most rapidly in Orissa and North and Central Behar. It was at 10 a. m. generally below the normal pressure of the day. The deficiency was greatest at False Point, where it was '09". The cyclonic vortex, which began to form on Tuesday off the Aracan coast, now commenced to move westwards across the Hay towards the Orissa coast. Temperature was above the average except at the coast stations of Orissa and South-West Bengal, and had increased considerably in Behar. The mean temperature of the past 24 hours was 1° above the normal in East Bengal, 2° in South-West Bengal, and 4° in North and Central Behar. High maximum temperatures were recorded for the day in South Behar. Buxar registered a maximum temperature of 101.9° and Patna of 100°. Winds were very light over the whole Province. In South Bengal winds were easterly and on the Orissa coast they were northerly or north-north-westerly. The indraught to the vortex was thus extending, but was as yet very feeble from the north. In North Bengal and Behar light easterly winds prevailed. The extension of the cyclonic disturbance during the past 24 hours gave increased humidity and overcast skies to South-West Bengal and the Orissa coast. In the interior of the province overcast skies to South-West Bengal and the Orissa coast. In the interior of the province the slight indraught to it continued to diminish the humidity and cloud amount. Rain fell only in connection with the cyclonic disturbance over Orissa, South-West Bengal, and East Bengal, and was generally moderate in amount. The break in the rains continued in Behar, North Bengal and Chutia Nagpur. The cyclonic vortex now gave overcast skies and rain to South Bengal and Orissa.

Friday, 13th July.—Pressure decreased slightly during the preceding 24 hours in Orissa, South-West Bengal, and at the majority of the North Bengal stations, and increased elsewhere. The fall of the barometer in Orissa was due to the westward movement of the feeble cyclonic vortex which was at 10 A. M. approaching the Orissa coast. It crossed the Orissa coast south of False Point and near Gopalpore late in the evening of this day. Pressure varied very slightly from the normal at 10 A. M. except in Orissa, and more especially at False Point where it was '14" below the average for the day. Temperature was above the generally and was unusually high in Behar and North Bengal. Buxar recorded the highest maximum temperature—101.9°. Winds were light to moderate in force at the head of the Bay, and indicated feeble indraught to the vortex off the Orissa at the head of the Bay, and indicated feeble indraught to the vortex off the Orissa coast. North-east winds generally revailed in Orissa and South-West Bengal at 10 a.m., but shifted round to south-east during the next 24 hours. Winds were light, variable, and unsteady in South Behar. The air was slightly damper in Bengal and Orissa. Skies were overcast or thickly clouded in South Beng 1 and Orissa. The sky was almost clear at the Behar stations. Rain fell in moderate amounts over South-West Bengal, East Bengal and the greater part of North Bengal Little or no rain fell in Behar, and the rainfall of North Bengal was very limited. The cyclonic vortex gave slightly unsettled weather with rain to South Bengal and Orissa. In Behar, North Bengal and Chutia Nagnur the break in the rains continued.

Nagpur the break in the rains continued.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 8th to 14th July 1883.

	15,000,000	Horn to	a wpe	Тимрия	ATURE.	Series I	1 X 60 T.C.	Нуском	BTRY.		
,	MONTE	Date.	Mean.	Махіншт.	Range.	Mintenne.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Rain
	1883.	14	0	0	0	1 0	- 0	Inches	1 0	1 %	Inches.
July		8th 9th 10th 11th 12th 13th 14th	81·9 83·3 84·3 85·6 81·0 83·5 81·8	89.7 90.0 91.3 92.3 10.6 88.9 87.7	11.4 12.0 12.5 12.4 11.1 9.5 8.7	78:3 78:0 78:8 79:9 79:5 79:4 79:0	79·7 79·6 80·6 81·2 79·3 79·6 79·3	986 962 995 1 006 979 959 969	78·8 78·1 79·1 79·4 78·6 78·0 78·3	90 84 84 81 92 83 89	0.52 0.11 Nil 0.02 0.58 Nil 0.57

All the second s			0
The mean temperature of the seven days			83.1
The extreme variation of temperature during the seven	days		14.3
The maximum temperature during the seven days			92.3
		- 11	°/0
The mean relative humidity during the seven cavs			86
			Inches
The total fall of rain from 8th to 14th July 1883			1.80

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA.

JOHN ELIOT,

The 16th July 1883.

For Meteorological Reporter to the Govt. of India.

MEMORANDA.

The subjoined table presents the vital statistics of the first class Municipalities in Bengal for the week ending 30th June. The results to be gathered from it, contrasted with those disclosed in the table for the preceding week ending 23rd June, are the following. As this week closes the month, occasion will also be taken to review the results of the whole month.

(1.) The Municipalities which returned the highest birth and death-rates in this week

	Births.			Deaths.	
		Ratio per mille.			Ratio per mille.
Gya	 	29.4	Gya		 70.4
Burdwan	 	29.0	Darjiling		 59.3
Santipore	 	25.9	Mozufferpore		 47.4
			Poori		 38.5
			Durbhanga		 36.2
			Patna		 28-9
			Suburbs of Ca	leutta	 27.1
			Chuprah	/	 25.4
			Kishnaghur		 25.0

(2.) The mortality from the different death-causes stood as follows as compared with that in the preceding week :-

			Ratio per weeks	1,000 during ending
			30th June.	23rd June.
Cholera		 	 3.8	4.5
Small-pox		 	 .5	.4
Fever	• •	 	 10.2	11.7
Bowel-compla	ints	 	 3.6	4.5
Injury		 	 .6	•4
Other causes		 	 6.6	69

These figures reveal that, excepting fractional increases in the death-rates from smallpox and violence, all the other diseases proved less fatal this week. Examining the death-rates from the above-mentioned diseases in all the weeks in June, it is seen that the only disease that prevailed, on the whole, with noticeable severity, was cholera, the death-rate from which was never below 4 per 1,000 of population, except during the week under review, when it stood at the still high ratio of 3.8 per 1,000.

Of the above-mentioned diseases cholera, small-pox and fever exhibited the greatest

severity during this week in the following Municipalities:-

C	holera.			Small	pox.			Fever.	
		Ratio per mille,				latio per mille.		R	atio per mille.
Gya Mozufferpore	::	20·5 12·2 6·3	Gya			4.1	Darjiling Gya Jossore	- 43	44·5 25·3 24·5
Durbhanga Chuprah Suburbs of Ca	lcutta	5·9 4·5		47			3 088016		240

Bowel-complaints proved greatly fatal in Durbhanga and Chupra, exhibiting a mortality represented by 11.8 and 9.8 persons per 1,000, respectively; and those diseases that are classed under the head of "Other causes" in Gya (15.7 per 1,000), in Poori (12.8 per 1,000), and in the Suburbs of Calcutta (9.7 per 1,000). Adverting again to the figures of all the weeks in June, we find that cholera persistently maintained the highest death-rates during all these weeks in Mozufferpore, Durbhanga, Gya and the Suburbs of Calcutta, in the order mentioned, and in Arrah and Howrah in the first and second weeks; small-pox only in Gya in the first, second and fourth weeks; and fever in Purneah in the first, second and third weeks, and in Darjiling, Gya and Jessore in the fourth week; and that all the other

diseases did not exhibit exceptional local severity during the whole of the period under review.

Class or Nationality.—The death-rate among Christians was the highest this week, (3 87 per 1,000 of population); Hindus furnished the next highest rate, viz. 26 6 per 1,000; and Mahomedans the lowest rate, the mortality among them amounting to 22 2 per 1,000.

Referring to Age, it is seen that during this week, while infants continued to perish in the highest proportion (223.6 per 1,000 of the living), old men died at the unprecedentedly low ratio of 29.5 per 1,000. The lowest death-rate was returned from among children aged 5 and under 10 years, who usually die in considerably larger numbers.

F. W. A. DEFABECK,

The 16th July 1883.

Officiating Sanitary Commissioner for Bengal.

113				Ratio of male deaths,	120	71	20	820	100	160	163	18	100	125	100	No female	800	400	No female	100	200	20	11	166	105	88	116	107	128	200	260	118
			PER OP LIION NUM.	Vermales,	16.3	6.15	21.3	8-0	1.13	90	6.45	8.95	11.8	16.6	*85	1	9.56	91	1	11.1	9.7	28-7	25.25	13-9	8.09	80.3	6-55	6.4.3	12.4	7.9	1.22	6-76
п		Sex.	RATIO PER 1.000 OF POPULATION PER ANNUM.	Males.	17.3	15.4	10.8	8.98	17.1	8.9	28.6	24.1	13.9		21.6	19-8	1.89	14.6	13-7	11.7	81.3	9.63	4.89	8.53	12	38.3	28.0	9.48	16.6	12.3	6.12	8.20
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10			DRATHS	Males.	9	ю	*	-	-	90	18	O)	1	ю	01	4	9	13	93	60	ю	#	43	10	20	* 51	14	14	0	93	13	351
			COMPARISON WITH PREVIOUS PERIODS,	Ratio of deaths per 1,000 of popularion per annum in the corresponding week of the previous year.						1						-ld#l	[IRA	100	t W318	a								,		200		Company of the last of the las
6	1		COMP WITH 1	Hatio of deaths per 1,000 of popula- tion per annum in the previous week,	6.53	21.7	12.1	23.2	18.9	16.3	27.1	8.83	18.0	6.5	9.08	4.9	9.68	4.13	90	7.11	34.7	\$.58	5.55	23-9	62.0	55.1	28.3	32.6	12.7	41.6	30.0	7.80
	G TO		PER	All causes.	16.8	18.6	1.91	17.7	18.8	4.9	27.1	52.0	13.0	19.4	24.2	10.2	59.3	2.6	90	14.1	23.1	6.85	4.02	19.3	*.14	36.2	25.4	4.46	14.2	10.4	38.2	F. 20
	ACCORDIN		10N P	Other diseases.	9.4	1.2	4.0	6.9	1	1.0	1.6	6.5	i	69 69	ţ	2.6	4.4	4.2	4.1	1.1	1.1	77.9	15.7	91 L-	90	4.6	8.9	8.1	ç	10	19.8	8.8
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	MORTALITY		1,000 AN	Fevers.	91 60	13.4	4.6	28	;	3.3	2.8	18.8	0.9	15.0	24.5	55.50	2.45	98	1	4.7	15.4	10.7	52.3	*.8	20.1	9.6	6.0	9.1	0.6	6.9	15.0	16.5
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		, 1	000	Total.	29-0	12.4	6.1	17.1	N 4.6	8.41	15.2	7.5	-	6.25	-	91	1	6.51	1	18.8	7.7 N	16-9	4.65	16.6	93	20.4	15-6	17.8	12.6	6.9	17.1	18.8
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	PIPTER		ATIO P	Males,	18.1	11	4.9	3.9	4.6	1.4	9.2	1.3	-	12.1	-	9.5	-	8.2	-	4.7	1.1	9.1	12.0	3.6	12.80	11.0	8.9	0.01	5.4	19.00	6.4 10	0.0
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10	NOTES TITOO			Bemulos.	16,017	16,633	19,539	12,987	2,464	44,689	104,234	92,169	4,655	12,542	3,665	9,095	2,439	87,879	4,956	8,790	5,353	81,475	87,831	29,505	19,658	32,322	27,205	27,813	29,366	6,553	11,265	602 409
	god			Males.	18,063	16,927	19,179	13,559	3,046	686'00	147,205	19,413	4,028	11,589	4,830	10,766	4,579	42,782	7,605	13,340	8,155	78,762	38,290	20,960	23,084	33,774	98,044	29,640	28,154	8,463	13,027	170 9A1
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	Bengal.
A. DEFABEUL,	Sanitary Commissioner for
F. W.	Somitary
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1 1 1 1	, m = 0	1111			38.1	1 1	- :	***	- q	1 1	10 29		1		61		41.8	6.41	6.86	-52	6 20.3	21.2	2.56	21.9
1 111	m © 0)	1 1 1		E S	188.1	-	į	1	7.0	1 1				4	- 1	24.0 48	48.0 11.5	.5 41.1	1 54.8	8 29.0		8.6	1.99	1
111	(w e)	1 1 1	1 1 1	40	25.55				. #	69		91		-	-	. !		-	-		83.4	-	1	-
111		: :	1 1	128			6		•				-	91	-	\$.98T	15-9	6.15	6	-	-	18.6	58.4	84.6
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			1	6.19	_	5.18	i , "	: -	-	!			01			8.629	6.08	6.88	81.8	-38	0	150-3	213.1	-
				7.7	-				,		4	*	01	-	-	8.99		-		13-	17.8	12.	0.11	6
Daces Narainonni					16.9		-			-		1	-			186.4	1	1	- 1	-	6.40	-	1	-
Chittacone Chittacone		1 10		0.6	17.0		-				91	-	-	-		4.56	- 1	1	43.0	0.	15.6	53.0	6.25	
				5.93	21.12		61		-			61		-		320.3	91	C+	1		25.53		6.59	
	12			31.0	6.22		19	83	4	MO	60	-	9	90	10	8 5.655	81.9	12.4 18	14.0	16-2	2 15-7	16.6	58.4	18.
		90		73-6	6.82		31	14	10	10	11	_	4	91		621 9.006	e	87.2 77.3	9.69 8.	92.38	8.98	80.13	3 15.8	8.06
bad	15			52.5	4. 5s		4	01	:	-	60		1	1	1	161.5 23	2.2		11.8 83	83-0 19-9	9 16.5		16.8	18.0
Comference Meanfernore	22	61		8.96	20.0		91	o	9 9	01	91	_	03	9	10	11 6.801	115.8 69	69.3	26.3 17.2	19.1	1 29.8	8 50.8	8 96.1	106
	90		8-00-8	6-17-	17.8			18	. 4		01	4		60	-	300.6	123.0	6 9.93	6.4 52.6	6.4	9.81		35-6	48.8
	96		100	-	26.0			- 40	01	07	-	NO.	01	-	10	4 0.52	8.9	16.9	2.08	10	2.2	3.91	6 15.3	74.7
hore Rhaminore	9		-	5.95	21.1		10	10	-	100	01	-	01	-	-3	6 9.989	6,96	8.8	- 64	6.55	1	16.5	100	144
Womehre			8-8-8		16.5									-	-	0.02	1.0	*	9.1 13	13-8 25	1	97	13-1	14.2
				-	6.0	-		0		1	, ,			1						52.3	18-5	28.0	0	1
Pores				88.0				1		, ,		1 0		. *	. 0	1057.6	-	61	5.85	2.03	1.35	1	6.96	133
TOTAL	100	-	87.8		02.00	24.2	130	107	: 83	87 87	857	1	19	299	1		50.6	13.0	16.7	19.8 16.5	2.5	9 14.8	8 29.7	5.65

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statement shewing the total amount of Traffic and Tolls on the Canals for the month of May 1883.

ORISSA CIRCLE.

Taldundah Canal.

LENGTH OF CANAL OPEN-271 MILES.

3		APPROXIMATE	TONNAGE O	BOATS.			Rute of
Number boats	Nature of cargo.	Weight of Value of cargo.	Maunds.	Tons.	Ton- mileage.	Tollage,	tod per ton-mile.

LOCAL TRAFFIC.

(1)-PRIVATE.

			Mds.	Rs.				Rs. A. 2.	A. P.
111	Nil.					Nil.			
	Total		*****	*****				343411	
	Total of same month last year					******	7.000.00		
- 1	And the second second	i.e.					1	٠.	
	MISCELLANEOUS.								
441	Nil.					Nil.			
	Total			*****	111-41	*****			*****
***	Total of same month last year	***	*****	******	*****		******	*****	14:111

(2)-STORES AND MATERIALS FOR IRRIGATION WORKS.

		Mds.	Rs.				Rs. A. P.	
. Nil.					Nil,			
Total	***	11.119	uno		100011			
Total of same month last year MISCELLANEOUS.	***			300.00				
Nil.					Nil.			
Total				1000				*****
. Total of same month last year			*****		>>>+	11440		1011

ABSTRACT.

		Mds.	Rs.			Rs. A. P.	1000
	Private, including miscellaneous Government stores, including miscellaneous	int and		Nil.	1		
1000	Grand Total	Aug or	Tempie 9	- 3039			
Prints:	Grand Total of same menth last year			- Salaria	311.444		

Мемо.	1		Rs. A. P.
Unrecovered balance on the 1st of the month		***	- 83 5 11
Amount credited in the accounts for the month	Total		83 5 11 83 5 11
Balance at the end of the mouth			